

S.

Supporting Information

PheRS-minimized

ATOM	1	N	VAL	A	86	2.63440	16.28353	-19.43173	N_R	3	0	-0.47000
ATOM	2	HN	VAL	A	86	2.87037	15.35049	-19.54799	H_A	1	0	0.15500
ATOM	3	HN	VAL	A	86	2.25051	16.77977	-20.17161	H_A	1	0	0.15500
ATOM	4	CA	VAL	A	86	2.84244	16.91809	-18.17657	C_3	4	0	0.16000
ATOM	5	HCA	VAL	A	86	2.19305	16.37686	-17.47939	H_	1	0	0.00000
ATOM	6	C	VAL	A	86	2.39545	18.34170	-18.21205	C_R	3	0	0.51000
ATOM	7	O	VAL	A	86	2.89809	19.14638	-19.03723	O_2	1	2	-0.51000
ATOM	8	CB	VAL	A	86	4.31281	16.71008	-17.66894	C_3	4	0	0.00000
ATOM	9	HC	VAL	A	86	4.46448	15.62775	-17.58402	H_	1	0	0.00000
ATOM	10	CG1	VAL	A	86	5.40818	17.21910	-18.64909	C_3	4	0	0.00000
ATOM	11	HCG1	VAL	A	86	5.33956	18.29564	-18.79076	H_	1	0	0.00000
ATOM	12	HCG1	VAL	A	86	6.40095	16.99016	-18.25813	H_	1	0	0.00000
ATOM	13	HCG1	VAL	A	86	5.31102	16.73060	-19.61937	H_	1	0	0.00000
ATOM	14	CG2	VAL	A	86	4.53011	17.28973	-16.24319	C_3	4	0	0.00000
ATOM	15	HCG2	VAL	A	86	3.82652	16.83860	-15.54106	H_	1	0	0.00000
ATOM	16	HCG2	VAL	A	86	5.54087	17.07380	-15.89271	H_	1	0	0.00000
ATOM	17	HCG2	VAL	A	86	4.38680	18.37133	-16.23500	H_	1	0	0.00000
ATOM	18	N	ASP	A	87	1.45479	18.76809	-17.33257	N_R	3	0	-0.47000
ATOM	19	HN	ASP	A	87	1.08555	18.11379	-16.72180	H_A	1	0	0.31000
ATOM	20	CA	ASP	A	87	0.98706	20.11592	-17.20333	C_3	4	0	0.16000
ATOM	21	HCA	ASP	A	87	0.85487	20.52196	-18.21375	H_	1	0	0.00000
ATOM	22	C	ASP	A	87	1.98273	20.97194	-16.48815	C_R	3	0	0.51000
ATOM	23	O	ASP	A	87	1.89595	21.27584	-15.27202	O_2	1	2	-0.51000
ATOM	24	CB	ASP	A	87	-0.43613	20.13436	-16.58101	C_3	4	0	-0.10000
ATOM	25	HC	ASP	A	87	-0.40551	19.65494	-15.60232	H_	1	0	0.00000
ATOM	26	HC	ASP	A	87	-1.11107	19.54942	-17.21217	H_	1	0	0.00000
ATOM	27	CG	ASP	A	87	-1.00892	21.49290	-16.44566	C_R	3	0	0.62000
ATOM	28	OD1	ASP	A	87	-0.39308	22.50349	-16.85806	O_2	1	2	-0.76000
ATOM	29	OD2	ASP	A	87	-2.11925	21.65443	-15.89347	O_2	1	2	-0.76000
ATOM	30	N	VAL	A	88	2.98075	21.46649	-17.24411	N_R	3	0	-0.47000
ATOM	31	HN	VAL	A	88	3.06951	20.99764	-18.08026	H_A	1	0	0.31000
ATOM	32	CA	VAL	A	88	3.91564	22.50156	-16.89997	C_3	4	0	0.16000
ATOM	33	HCA	VAL	A	88	4.55944	22.07238	-16.12428	H_	1	0	0.00000
ATOM	34	C	VAL	A	88	3.33219	23.74995	-16.30320	C_R	3	0	0.51000
ATOM	35	O	VAL	A	88	4.16110	24.58678	-15.86861	O_2	1	2	-0.51000
ATOM	36	CB	VAL	A	88	4.82177	22.82958	-18.14139	C_3	4	0	0.00000
ATOM	37	HC	VAL	A	88	5.52326	23.62039	-17.85428	H_	1	0	0.00000
ATOM	38	CG1	VAL	A	88	5.71110	21.62607	-18.56453	C_3	4	0	0.00000
ATOM	39	HCG1	VAL	A	88	5.09886	20.78069	-18.87351	H_	1	0	0.00000
ATOM	40	HCG1	VAL	A	88	6.35808	21.90401	-19.39843	H_	1	0	0.00000
ATOM	41	HCG1	VAL	A	88	6.34715	21.31364	-17.73441	H_	1	0	0.00000
ATOM	42	CG2	VAL	A	88	4.01125	23.36960	-19.35432	C_3	4	0	0.00000
ATOM	43	HCG2	VAL	A	88	3.47107	24.27676	-19.07837	H_	1	0	0.00000
ATOM	44	HCG2	VAL	A	88	4.68029	23.61659	-20.18036	H_	1	0	0.00000
ATOM	45	HCG2	VAL	A	88	3.29119	22.62762	-19.70296	H_	1	0	0.00000
ATOM	46	N	SER	A	89	2.00165	24.01294	-16.17139	N_R	3	0	-0.47000
ATOM	47	HN	SER	A	89	1.33605	23.39867	-16.50095	H_A	1	0	0.31000
ATOM	48	CA	SER	A	89	1.43443	25.14750	-15.48766	C_3	4	0	0.16000
ATOM	49	HCA	SER	A	89	2.22094	25.84919	-15.19436	H_	1	0	0.00000

ATOM	50	C	SER	A	89	0.77857	24.75466	-14.20527	C_R	3	0	0.51000
ATOM	51	O	SER	A	89	0.11949	25.62501	-13.58419	O_2	1	2	-0.51000
ATOM	52	CB	SER	A	89	0.50113	25.95472	-16.43743	C_3	4	0	0.23000
ATOM	53	HC	SER	A	89	0.97663	26.07379	-17.41341	H_	1	0	0.00000
ATOM	54	HC	SER	A	89	0.33850	26.95423	-16.02699	H_	1	0	0.00000
ATOM	55	OG	SER	A	89	-0.77980	25.36812	-16.63424	O_3	2	2	-0.66000
ATOM	56	HOG	SER	A	89	-1.09420	25.18252	-15.72541	H_A	1	0	0.43000
ATOM	57	N	LEU	A	90	0.92986	23.52489	-13.64505	N_R	3	0	-0.47000
ATOM	58	HN	LEU	A	90	1.30210	22.82301	-14.18753	H_A	1	0	0.31000
ATOM	59	CA	LEU	A	90	0.60129	23.20994	-12.27422	C_3	4	0	0.16000
ATOM	60	HCA	LEU	A	90	-0.44246	23.47810	-12.13640	H_	1	0	0.00000
ATOM	61	C	LEU	A	90	1.45336	23.94543	-11.28036	C_R	3	0	0.51000
ATOM	62	O	LEU	A	90	2.66786	24.09059	-11.56574	O_2	1	2	-0.51000
ATOM	63	CB	LEU	A	90	0.75258	21.68196	-11.99095	C_3	4	0	0.00000
ATOM	64	HC	LEU	A	90	0.70537	21.49613	-10.91177	H_	1	0	0.00000
ATOM	65	HC	LEU	A	90	1.75387	21.38200	-12.32001	H_	1	0	0.00000
ATOM	66	CG	LEU	A	90	-0.31310	20.76938	-12.67290	C_3	4	0	0.00000
ATOM	67	HCG	LEU	A	90	-0.40521	21.08696	-13.70996	H_	1	0	0.00000
ATOM	68	CD1	LEU	A	90	0.15129	19.28525	-12.67672	C_3	4	0	0.00000
ATOM	69	HCD1	LEU	A	90	0.29834	18.92613	-11.65660	H_	1	0	0.00000
ATOM	70	HCD1	LEU	A	90	-0.59106	18.65245	-13.16511	H_	1	0	0.00000
ATOM	71	HCD1	LEU	A	90	1.09087	19.18192	-13.22213	H_	1	0	0.00000
ATOM	72	CD2	LEU	A	90	-1.72223	20.88592	-12.02601	C_3	4	0	0.00000
ATOM	73	HCD2	LEU	A	90	-2.10840	21.90177	-12.10432	H_	1	0	0.00000
ATOM	74	HCD2	LEU	A	90	-2.42841	20.22924	-12.53640	H_	1	0	0.00000
ATOM	75	HCD2	LEU	A	90	-1.68682	20.60706	-10.97137	H_	1	0	0.00000
ATOM	76	N	PRO	A	91	1.02088	24.38978	-10.05666	N_R	3	0	-0.29000
ATOM	77	CA	PRO	A	91	1.90669	24.87006	-9.01864	C_3	4	0	0.11000
ATOM	78	HCA	PRO	A	91	2.32014	25.82649	-9.36108	H_	1	0	0.00000
ATOM	79	C	PRO	A	91	2.99365	23.95686	-8.65109	C_2	3	0	0.51000
ATOM	80	O	PRO	A	91	2.73022	22.79544	-8.36291	O_2	1	2	-0.51000
ATOM	81	CB	PRO	A	91	0.99466	25.15383	-7.79630	C_3	4	0	0.00000
ATOM	82	HC	PRO	A	91	1.30637	26.05275	-7.25805	H_	1	0	0.00000
ATOM	83	HC	PRO	A	91	0.97070	24.31492	-7.09282	H_	1	0	0.00000
ATOM	84	CG	PRO	A	91	-0.39860	25.32218	-8.40745	C_3	4	0	0.00000
ATOM	85	HCG	PRO	A	91	-0.55454	26.36521	-8.70003	H_	1	0	0.00000
ATOM	86	HCG	PRO	A	91	-1.18917	25.01970	-7.71531	H_	1	0	0.00000
ATOM	87	CD	PRO	A	91	-0.35270	24.42132	-9.65205	C_3	4	0	0.18000
ATOM	88	HCD	PRO	A	91	-0.69140	23.40972	-9.40769	H_	1	0	0.00000
ATOM	89	HCD	PRO	A	91	-1.00352	24.85173	-10.41780	H_	1	0	0.00000
ATOM	90	N	GLY	A	92	4.24288	24.38656	-8.60542	N_R	3	0	-0.47000
ATOM	91	HN	GLY	A	92	4.39800	25.30517	-8.87044	H_A	1	0	0.31000
ATOM	92	CA	GLY	A	92	5.37712	23.62696	-8.16247	C_3	4	0	0.16000
ATOM	93	HCA	GLY	A	92	6.26709	24.18461	-8.45861	H_	1	0	0.00000
ATOM	94	HCA	GLY	A	92	5.40249	22.66786	-8.68593	H_	1	0	0.00000
ATOM	95	C	GLY	A	92	5.45181	23.38707	-6.69750	C_R	3	0	0.51000
ATOM	96	O	GLY	A	92	4.55266	23.79759	-5.92549	O_2	1	2	-0.51000
ATOM	97	N	ALA	A	93	6.51986	22.72727	-6.18959	N_R	3	0	-0.47000
ATOM	98	HN	ALA	A	93	7.19802	22.44651	-6.82229	H_A	1	0	0.31000
ATOM	99	CA	ALA	A	93	6.72720	22.39276	-4.80413	C_3	4	0	0.16000
ATOM	100	HCA	ALA	A	93	5.91565	21.72143	-4.50356	H_	1	0	0.00000
ATOM	101	C	ALA	A	93	6.74510	23.57691	-3.89664	C_R	3	0	0.51000
ATOM	102	O	ALA	A	93	7.53455	24.52239	-4.13259	O_2	1	2	-0.51000
ATOM	103	CB	ALA	A	93	8.04765	21.59267	-4.67356	C_3	4	0	0.00000
ATOM	104	HC	ALA	A	93	8.89560	22.18427	-5.02495	H_	1	0	0.00000
ATOM	105	HC	ALA	A	93	8.22267	21.31185	-3.63289	H_	1	0	0.00000
ATOM	106	HC	ALA	A	93	7.99295	20.67869	-5.26856	H_	1	0	0.00000

ATOM	107	N	SER	A	94	5.91874	23.64212	-2.82399	N_R	3	0	-0.47000
ATOM	108	HN	SER	A	94	5.32921	22.88690	-2.67315	H_A	1	0	0.31000
ATOM	109	CA	SER	A	94	5.83893	24.74308	-1.90097	C_3	4	0	0.16000
ATOM	110	HCA	SER	A	94	5.71476	25.65527	-2.49487	H_	1	0	0.00000
ATOM	111	C	SER	A	94	7.06881	24.88030	-1.05544	C_R	3	0	0.51000
ATOM	112	O	SER	A	94	7.31741	24.04973	-0.14450	O_2	1	2	-0.51000
ATOM	113	CB	SER	A	94	4.55078	24.62619	-1.03337	C_3	4	0	0.23000
ATOM	114	HC	SER	A	94	3.66284	24.61604	-1.66879	H_	1	0	0.00000
ATOM	115	HC	SER	A	94	4.47914	25.48654	-0.36341	H_	1	0	0.00000
ATOM	116	OG	SER	A	94	4.55310	23.44150	-0.24144	O_3	2	2	-0.66000
ATOM	117	HOG	SER	A	94	5.48170	23.44973	0.03074	H_A	1	0	0.43000
ATOM	118	N	LEU	A	95	7.91855	25.91056	-1.28197	N_R	3	0	-0.47000
ATOM	119	HN	LEU	A	95	7.68695	26.49650	-2.01989	H_A	1	0	0.31000
ATOM	120	CA	LEU	A	95	9.12033	26.23748	-0.55574	C_3	4	0	0.16000
ATOM	121	HCA	LEU	A	95	9.34646	25.45340	0.17293	H_	1	0	0.00000
ATOM	122	C	LEU	A	95	8.93265	27.50594	0.21137	C_R	3	0	0.51000
ATOM	123	O	LEU	A	95	8.26240	28.45144	-0.27677	O_2	1	2	-0.51000
ATOM	124	CB	LEU	A	95	10.33618	26.34867	-1.53877	C_3	4	0	0.00000
ATOM	125	HC	LEU	A	95	11.01736	27.12408	-1.17040	H_	1	0	0.00000
ATOM	126	HC	LEU	A	95	9.98828	26.68702	-2.52090	H_	1	0	0.00000
ATOM	127	CG	LEU	A	95	11.19229	25.04979	-1.71248	C_3	4	0	0.00000
ATOM	128	HCG	LEU	A	95	11.52159	24.72864	-0.71932	H_	1	0	0.00000
ATOM	129	CD1	LEU	A	95	10.41014	23.86847	-2.34791	C_3	4	0	0.00000
ATOM	130	HCD1	LEU	A	95	10.05391	24.13766	-3.34215	H_	1	0	0.00000
ATOM	131	HCD1	LEU	A	95	11.05201	22.99033	-2.43638	H_	1	0	0.00000
ATOM	132	HCD1	LEU	A	95	9.55960	23.58932	-1.72895	H_	1	0	0.00000
ATOM	133	CD2	LEU	A	95	12.47521	25.33951	-2.54168	C_3	4	0	0.00000
ATOM	134	HCD2	LEU	A	95	13.08352	26.10012	-2.04849	H_	1	0	0.00000
ATOM	135	HCD2	LEU	A	95	13.08211	24.43720	-2.63825	H_	1	0	0.00000
ATOM	136	HCD2	LEU	A	95	12.21605	25.69409	-3.54154	H_	1	0	0.00000
ATOM	137	N	PHE	A	96	9.53507	27.63936	1.42106	N_R	3	0	-0.47000
ATOM	138	HN	PHE	A	96	10.06615	26.88379	1.71833	H_A	1	0	0.31000
ATOM	139	CA	PHE	A	96	9.48234	28.77564	2.30892	C_3	4	0	0.16000
ATOM	140	HCA	PHE	A	96	8.45002	29.13944	2.33853	H_	1	0	0.00000
ATOM	141	C	PHE	A	96	10.31305	29.92899	1.84070	C_R	3	0	0.51000
ATOM	142	O	PHE	A	96	11.33399	30.32458	2.44982	O_2	1	2	-0.51000
ATOM	143	CB	PHE	A	96	9.84334	28.30594	3.75410	C_3	4	0	0.00000
ATOM	144	HC	PHE	A	96	9.98367	29.17429	4.40471	H_	1	0	0.00000
ATOM	145	HC	PHE	A	96	10.80313	27.78112	3.72460	H_	1	0	0.00000
ATOM	146	CG	PHE	A	96	8.79248	27.45147	4.37375	C_R	3	0	0.00000
ATOM	147	CD1	PHE	A	96	7.56778	28.02710	4.79100	C_R	3	0	0.00000
ATOM	148	HCD1	PHE	A	96	7.40087	29.02942	4.67184	H_	1	0	0.00000
ATOM	149	CD2	PHE	A	96	8.98890	26.06351	4.56761	C_R	3	0	0.00000
ATOM	150	HCD2	PHE	A	96	9.86330	25.61844	4.27956	H_	1	0	0.00000
ATOM	151	CE1	PHE	A	96	6.56360	27.23688	5.37919	C_R	3	0	0.00000
ATOM	152	HCE1	PHE	A	96	5.68355	27.66555	5.67503	H_	1	0	0.00000
ATOM	153	CE2	PHE	A	96	7.98391	25.27268	5.15682	C_R	3	0	0.00000
ATOM	154	HCE2	PHE	A	96	8.13502	24.27046	5.29124	H_	1	0	0.00000
ATOM	155	CZ	PHE	A	96	6.77132	25.85881	5.56122	C_R	3	0	0.00000
ATOM	156	HCZ	PHE	A	96	6.04135	25.28411	5.98845	H_	1	0	0.00000
ATOM	157	N	SER	A	97	9.90034	30.57189	0.72914	N_R	3	0	-0.47000
ATOM	158	HN	SER	A	97	9.22886	30.06909	0.26631	H_A	1	0	0.31000
ATOM	159	CA	SER	A	97	10.39342	31.79940	0.15960	C_3	4	0	0.16000
ATOM	160	HCA	SER	A	97	11.28471	31.54078	-0.41975	H_	1	0	0.00000
ATOM	161	C	SER	A	97	10.74057	32.87757	1.14574	C_R	3	0	0.51000
ATOM	162	O	SER	A	97	9.88894	33.25037	1.99335	O_2	1	2	-0.51000
ATOM	163	CB	SER	A	97	9.33114	32.34115	-0.84312	C_3	4	0	0.23000

ATOM	164	HCB	SER	A	97	9.06750	31.57682	-1.57738	H_	1	0	0.00000
ATOM	165	HCB	SER	A	97	9.74330	33.19708	-1.38247	H_	1	0	0.00000
ATOM	166	OG	SER	A	97	8.13857	32.76624	-0.17772	O_3	2	2	-0.66000
ATOM	167	HOG	SER	A	97	8.50991	32.97055	0.69160	H_A	1	0	0.43000
ATOM	168	N	GLY	A	98	11.94755	33.48925	1.09943	N_R	3	0	-0.47000
ATOM	169	HN	GLY	A	98	12.56617	33.19564	0.41248	H_A	1	0	0.31000
ATOM	170	CA	GLY	A	98	12.40139	34.51984	1.99074	C_3	4	0	0.16000
ATOM	171	HCA	GLY	A	98	13.47963	34.60027	1.83848	H_	1	0	0.00000
ATOM	172	HCA	GLY	A	98	12.24494	34.19187	3.02119	H_	1	0	0.00000
ATOM	173	C	GLY	A	98	11.82452	35.88191	1.82376	C_R	3	0	0.51000
ATOM	174	O	GLY	A	98	10.94097	36.12162	0.96271	O_2	1	2	-0.51000
ATOM	175	N	GLY	A	99	12.29279	36.86602	2.62694	N_R	3	0	-0.47000
ATOM	176	HN	GLY	A	99	12.95669	36.60766	3.28736	H_A	1	0	0.31000
ATOM	177	CA	GLY	A	99	11.93688	38.25774	2.58681	C_3	4	0	0.16000
ATOM	178	HCA	GLY	A	99	10.85181	38.36387	2.65033	H_	1	0	0.00000
ATOM	179	HCA	GLY	A	99	12.27239	38.66748	1.63114	H_	1	0	0.00000
ATOM	180	C	GLY	A	99	12.54978	39.05111	3.68812	C_R	3	0	0.51000
ATOM	181	O	GLY	A	99	13.09566	38.44968	4.64302	O_2	1	2	-0.51000
ATOM	182	N	LEU	A	100	12.53470	40.40817	3.66066	N_R	3	0	-0.47000
ATOM	183	HN	LEU	A	100	12.11407	40.82503	2.89218	H_A	1	0	0.31000
ATOM	184	CA	LEU	A	100	13.07541	41.29679	4.66846	C_3	4	0	0.16000
ATOM	185	HCA	LEU	A	100	13.36920	40.73092	5.55343	H_	1	0	0.00000
ATOM	186	C	LEU	A	100	12.06873	42.27890	5.17084	C_R	3	0	0.51000
ATOM	187	O	LEU	A	100	10.91720	42.32331	4.67805	O_2	1	2	-0.51000
ATOM	188	CB	LEU	A	100	14.34171	42.02476	4.11084	C_3	4	0	0.00000
ATOM	189	HCB	LEU	A	100	14.68079	42.77440	4.83316	H_	1	0	0.00000
ATOM	190	HCB	LEU	A	100	14.03873	42.56153	3.20711	H_	1	0	0.00000
ATOM	191	CG	LEU	A	100	15.56944	41.11825	3.76886	C_3	4	0	0.00000
ATOM	192	HCG	LEU	A	100	15.24738	40.35434	3.05504	H_	1	0	0.00000
ATOM	193	CD1	LEU	A	100	16.68517	41.95209	3.07508	C_3	4	0	0.00000
ATOM	194	HCD1	LEU	A	100	17.02840	42.75706	3.72819	H_	1	0	0.00000
ATOM	195	HCD1	LEU	A	100	17.53839	41.31915	2.82685	H_	1	0	0.00000
ATOM	196	HCD1	LEU	A	100	16.31347	42.38914	2.14803	H_	1	0	0.00000
ATOM	197	CD2	LEU	A	100	16.16118	40.39149	5.01042	C_3	4	0	0.00000
ATOM	198	HCD2	LEU	A	100	15.43401	39.71197	5.45213	H_	1	0	0.00000
ATOM	199	HCD2	LEU	A	100	17.02792	39.79372	4.72456	H_	1	0	0.00000
ATOM	200	HCD2	LEU	A	100	16.47028	41.11299	5.76908	H_	1	0	0.00000
ATOM	201	N	HSD	A	101	12.40573	43.10702	6.19132	N_R	3	0	-0.47000
ATOM	202	HN	HSD	A	101	13.33145	43.07965	6.47783	H_A	1	0	0.31000
ATOM	203	CA	HSD	A	101	11.53774	43.98707	6.93345	C_3	4	0	0.16000
ATOM	204	HCA	HSD	A	101	10.50433	43.70496	6.72452	H_	1	0	0.00000
ATOM	205	C	HSD	A	101	11.74219	45.43817	6.57480	C_R	3	0	0.51000
ATOM	206	O	HSD	A	101	12.92578	45.82496	6.40976	O_2	1	2	-0.51000
ATOM	207	CB	HSD	A	101	11.78332	43.68765	8.44659	C_3	4	0	0.10000
ATOM	208	HCB	HSD	A	101	12.85099	43.75048	8.67592	H_	1	0	0.00000
ATOM	209	HCB	HSD	A	101	11.46729	42.66332	8.66274	H_	1	0	0.00000
ATOM	210	CG	HSD	A	101	11.05408	44.59651	9.35090	C_R	3	0	0.22000
ATOM	211	ND1	HSD	A	101	9.86110	44.38999	9.92986	N_R	2	1	-0.70000
ATOM	212	CD2	HSD	A	101	11.46580	45.87189	9.69778	C_R	3	0	0.04000
ATOM	213	HCD2	HSD	A	101	12.33699	46.30198	9.41421	H_	1	0	0.00000
ATOM	214	CE1	HSD	A	101	9.53693	45.51518	10.59321	C_R	3	0	0.38000
ATOM	215	HCE1	HSD	A	101	8.68048	45.65938	11.12752	H_	1	0	0.00000
ATOM	216	NE2	HSD	A	101	10.50517	46.42510	10.43843	N_R	3	0	-0.36000
ATOM	217	HNE2	HSD	A	101	10.50590	47.31470	10.82177	H_A	1	0	0.32000
ATOM	218	N	PRO	A	102	10.73838	46.37221	6.47125	N_R	3	0	-0.29000
ATOM	219	CA	PRO	A	102	10.92124	47.74979	6.04641	C_3	4	0	0.11000
ATOM	220	HCA	PRO	A	102	11.21636	47.70951	4.99324	H_	1	0	0.00000

ATOM	221	C	PRO	A	102	11.90955	48.56014	6.76814	C_2	3	0	0.51000
ATOM	222	O	PRO	A	102	12.70206	49.21987	6.10351	O_2	1	2	-0.51000
ATOM	223	CB	PRO	A	102	9.50893	48.39092	6.07401	C_3	4	0	0.00000
ATOM	224	HC	PRO	A	102	9.09910	48.45502	5.06043	H_	1	0	0.00000
ATOM	225	HC	PRO	A	102	9.49137	49.39248	6.51325	H_	1	0	0.00000
ATOM	226	CG	PRO	A	102	8.66538	47.41289	6.89556	C_3	4	0	0.00000
ATOM	227	HCG	PRO	A	102	7.62067	47.40048	6.57756	H_	1	0	0.00000
ATOM	228	HCG	PRO	A	102	8.72097	47.66942	7.95575	H_	1	0	0.00000
ATOM	229	CD	PRO	A	102	9.35181	46.06552	6.65936	C_3	4	0	0.18000
ATOM	230	HCD	PRO	A	102	9.15577	45.41896	7.51315	H_	1	0	0.00000
ATOM	231	HCD	PRO	A	102	8.96751	45.58669	5.75723	H_	1	0	0.00000
ATOM	232	N	ILE	A	103	11.99321	48.58942	8.09172	N_R	3	0	-0.47000
ATOM	233	HN	ILE	A	103	11.35858	48.06930	8.59910	H_A	1	0	0.31000
ATOM	234	CA	ILE	A	103	13.01016	49.30376	8.84033	C_3	4	0	0.16000
ATOM	235	HCA	ILE	A	103	12.94524	50.35717	8.54893	H_	1	0	0.00000
ATOM	236	C	ILE	A	103	14.35396	48.79555	8.44712	C_R	3	0	0.51000
ATOM	237	O	ILE	A	103	15.13049	49.59282	7.89048	O_2	1	2	-0.51000
ATOM	238	CB	ILE	A	103	12.78581	49.24901	10.39116	C_3	4	0	0.00000
ATOM	239	HC	ILE	A	103	12.79626	48.19744	10.68717	H_	1	0	0.00000
ATOM	240	CG1	ILE	A	103	11.39567	49.81065	10.83374	C_3	4	0	0.00000
ATOM	241	HCG1	ILE	A	103	11.26062	49.61869	11.90276	H_	1	0	0.00000
ATOM	242	HCG1	ILE	A	103	10.60926	49.26054	10.31471	H_	1	0	0.00000
ATOM	243	CG2	ILE	A	103	13.94187	49.90071	11.20632	C_3	4	0	0.00000
ATOM	244	HCG2	ILE	A	103	14.05502	50.95183	10.95362	H_	1	0	0.00000
ATOM	245	HCG2	ILE	A	103	13.73077	49.81538	12.26833	H_	1	0	0.00000
ATOM	246	HCG2	ILE	A	103	14.88976	49.39514	11.02059	H_	1	0	0.00000
ATOM	247	CD1	ILE	A	103	11.14298	51.31556	10.58202	C_3	4	0	0.00000
ATOM	248	HCD1	ILE	A	103	11.19132	51.54761	9.51997	H_	1	0	0.00000
ATOM	249	HCD1	ILE	A	103	10.14647	51.56849	10.93360	H_	1	0	0.00000
ATOM	250	HCD1	ILE	A	103	11.86393	51.92981	11.11991	H_	1	0	0.00000
ATOM	251	N	THR	A	104	14.71382	47.49834	8.58945	N_R	3	0	-0.47000
ATOM	252	HN	THR	A	104	14.10301	46.94605	9.08014	H_A	1	0	0.31000
ATOM	253	CA	THR	A	104	15.93862	46.88904	8.12585	C_3	4	0	0.16000
ATOM	254	HCA	THR	A	104	16.72590	47.24229	8.79908	H_	1	0	0.00000
ATOM	255	C	THR	A	104	16.28165	47.27598	6.72271	C_R	3	0	0.51000
ATOM	256	O	THR	A	104	17.43894	47.67538	6.46946	O_2	1	2	-0.51000
ATOM	257	CB	THR	A	104	15.88185	45.33260	8.26133	C_3	4	0	0.23000
ATOM	258	HC	THR	A	104	15.18567	44.92713	7.52243	H_	1	0	0.00000
ATOM	259	OG1	THR	A	104	15.40989	44.91699	9.54709	O_3	2	2	-0.66000
ATOM	260	HOG1	THR	A	104	14.54063	45.34082	9.68107	H_A	1	0	0.43000
ATOM	261	CG2	THR	A	104	17.25726	44.64543	8.06246	C_3	4	0	0.00000
ATOM	262	HCG2	THR	A	104	17.97514	45.01497	8.79717	H_	1	0	0.00000
ATOM	263	HCG2	THR	A	104	17.15629	43.56606	8.18861	H_	1	0	0.00000
ATOM	264	HCG2	THR	A	104	17.64553	44.83684	7.06190	H_	1	0	0.00000
ATOM	265	N	LEU	A	105	15.36635	47.23495	5.72301	N_R	3	0	-0.47000
ATOM	266	HN	LEU	A	105	14.52308	46.83359	5.93724	H_A	1	0	0.31000
ATOM	267	CA	LEU	A	105	15.57440	47.73545	4.38288	C_3	4	0	0.16000
ATOM	268	HCA	LEU	A	105	16.40090	47.16068	3.95802	H_	1	0	0.00000
ATOM	269	C	LEU	A	105	15.95782	49.18326	4.33845	C_R	3	0	0.51000
ATOM	270	O	LEU	A	105	17.01664	49.50641	3.74729	O_2	1	2	-0.51000
ATOM	271	CB	LEU	A	105	14.31577	47.46306	3.50062	C_3	4	0	0.00000
ATOM	272	HC	LEU	A	105	14.39343	48.02695	2.56396	H_	1	0	0.00000
ATOM	273	HC	LEU	A	105	13.44665	47.86067	4.02637	H_	1	0	0.00000
ATOM	274	CG	LEU	A	105	14.07360	45.95413	3.15462	C_3	4	0	0.00000
ATOM	275	HCG	LEU	A	105	14.31738	45.34695	4.03084	H_	1	0	0.00000
ATOM	276	CD1	LEU	A	105	12.58308	45.67197	2.81914	C_3	4	0	0.00000
ATOM	277	HCD1	LEU	A	105	12.24885	46.30904	2.00275	H_	1	0	0.00000

ATOM	278	HCD1	LEU	A	105	12.43872	44.62785	2.53801	H_	1	0	0.00000
ATOM	279	HCD1	LEU	A	105	11.95429	45.86823	3.68402	H_	1	0	0.00000
ATOM	280	CD2	LEU	A	105	14.98221	45.47861	1.98685	C_3	4	0	0.00000
ATOM	281	HCD2	LEU	A	105	16.03319	45.57789	2.25541	H_	1	0	0.00000
ATOM	282	HCD2	LEU	A	105	14.79581	44.43046	1.75573	H_	1	0	0.00000
ATOM	283	HCD2	LEU	A	105	14.79437	46.06521	1.08603	H_	1	0	0.00000
ATOM	284	N	MET	A	106	15.21171	50.14404	4.93595	N_R	3	0	-0.47000
ATOM	285	HN	MET	A	106	14.39181	49.86067	5.34606	H_A	1	0	0.31000
ATOM	286	CA	MET	A	106	15.55297	51.55093	5.00055	C_3	4	0	0.16000
ATOM	287	HCA	MET	A	106	15.59171	51.92248	3.97639	H_	1	0	0.00000
ATOM	288	C	MET	A	106	16.87989	51.80406	5.63738	C_R	3	0	0.51000
ATOM	289	O	MET	A	106	17.73291	52.54630	5.10308	O_2	1	2	-0.51000
ATOM	290	CB	MET	A	106	14.42283	52.31722	5.75200	C_3	4	0	0.00000
ATOM	291	HCB	MET	A	106	14.41992	52.00479	6.79844	H_	1	0	0.00000
ATOM	292	HCB	MET	A	106	13.45359	52.03178	5.34006	H_	1	0	0.00000
ATOM	293	CG	MET	A	106	14.52198	53.86500	5.70453	C_3	4	0	0.04000
ATOM	294	HCG	MET	A	106	15.50859	54.19844	6.02655	H_	1	0	0.00000
ATOM	295	HCG	MET	A	106	13.80003	54.28194	6.40621	H_	1	0	0.00000
ATOM	296	SD	MET	A	106	14.08865	54.53473	4.07983	S_3	2	0	-0.09000
ATOM	297	CE	MET	A	106	15.71722	55.10448	3.54820	C_3	4	0	0.05000
ATOM	298	HCE	MET	A	106	16.41168	54.27233	3.52104	H_	1	0	0.00000
ATOM	299	HCE	MET	A	106	15.65162	55.53633	2.55245	H_	1	0	0.00000
ATOM	300	HCE	MET	A	106	16.08553	55.86287	4.23419	H_	1	0	0.00000
ATOM	301	N	GLU	A	107	17.17070	51.19550	6.79914	N_R	3	0	-0.47000
ATOM	302	HN	GLU	A	107	16.47638	50.65783	7.15872	H_A	1	0	0.31000
ATOM	303	CA	GLU	A	107	18.38079	51.23631	7.56145	C_3	4	0	0.16000
ATOM	304	HCA	GLU	A	107	18.54481	52.27076	7.87457	H_	1	0	0.00000
ATOM	305	C	GLU	A	107	19.53764	50.76833	6.74526	C_R	3	0	0.51000
ATOM	306	O	GLU	A	107	20.53236	51.51645	6.60659	O_2	1	2	-0.51000
ATOM	307	CB	GLU	A	107	18.08470	50.39261	8.83522	C_3	4	0	0.00000
ATOM	308	HCB	GLU	A	107	18.01943	49.33718	8.56227	H_	1	0	0.00000
ATOM	309	HCB	GLU	A	107	17.10304	50.69883	9.21463	H_	1	0	0.00000
ATOM	310	CG	GLU	A	107	19.07373	50.54179	10.01459	C_3	4	0	-0.10000
ATOM	311	HCG	GLU	A	107	19.30119	51.60038	10.16546	H_	1	0	0.00000
ATOM	312	HCG	GLU	A	107	20.00511	50.01904	9.78539	H_	1	0	0.00000
ATOM	313	CD	GLU	A	107	18.48500	49.97845	11.25181	C_R	3	0	0.62000
ATOM	314	OE1	GLU	A	107	18.26140	50.70090	12.24914	O_2	1	2	-0.76000
ATOM	315	OE2	GLU	A	107	18.15313	48.77205	11.30729	O_2	1	2	-0.76000
ATOM	316	N	ARG	A	108	19.49339	49.60712	6.04532	N_R	3	0	-0.47000
ATOM	317	HN	ARG	A	108	18.76132	49.01744	6.20889	H_A	1	0	0.31000
ATOM	318	CA	ARG	A	108	20.45247	49.17896	5.06382	C_3	4	0	0.16000
ATOM	319	HCA	ARG	A	108	21.39937	49.03903	5.59548	H_	1	0	0.00000
ATOM	320	C	ARG	A	108	20.63679	50.17857	3.97110	C_R	3	0	0.51000
ATOM	321	O	ARG	A	108	21.80710	50.50974	3.68135	O_2	1	2	-0.51000
ATOM	322	CB	ARG	A	108	20.05311	47.79093	4.48704	C_3	4	0	0.00000
ATOM	323	HCB	ARG	A	108	19.12545	47.88581	3.91859	H_	1	0	0.00000
ATOM	324	HCB	ARG	A	108	19.86321	47.10790	5.32005	H_	1	0	0.00000
ATOM	325	CG	ARG	A	108	21.14799	47.14913	3.58610	C_3	4	0	0.00000
ATOM	326	HCG	ARG	A	108	22.05446	47.00694	4.18134	H_	1	0	0.00000
ATOM	327	HCG	ARG	A	108	21.39573	47.82036	2.75944	H_	1	0	0.00000
ATOM	328	CD	ARG	A	108	20.73046	45.78212	2.99638	C_3	4	0	0.38000
ATOM	329	HCD	ARG	A	108	20.39948	45.11864	3.80056	H_	1	0	0.00000
ATOM	330	HCD	ARG	A	108	21.60073	45.32975	2.51201	H_	1	0	0.00000
ATOM	331	NE	ARG	A	108	19.69345	45.93512	2.03039	N_R	3	0	-0.70000
ATOM	332	HNE	ARG	A	108	19.38863	46.83441	1.84358	H_A	1	0	0.44000
ATOM	333	CZ	ARG	A	108	19.12103	44.94355	1.34997	C_R	3	0	0.64000
ATOM	334	NH1	ARG	A	108	19.43043	43.66312	1.49745	N_R	3	0	-0.80000

ATOM	335	HNH1	ARG	A	108	18.98207	42.99124	0.96920	H_A	1	0	0.46000
ATOM	336	HNH1	ARG	A	108	20.10990	43.40772	2.13486	H_A	1	0	0.46000
ATOM	337	NH2	ARG	A	108	18.18875	45.25274	0.46852	N_R	3	0	-0.80000
ATOM	338	HNH2	ARG	A	108	17.75654	44.55713	-0.04039	H_A	1	0	0.46000
ATOM	339	HNH2	ARG	A	108	17.94344	46.17925	0.33187	H_A	1	0	0.46000
ATOM	340	N	GLU	A	109	19.59860	50.72593	3.28922	N_R	3	0	-0.47000
ATOM	341	HN	GLU	A	109	18.72604	50.37706	3.47460	H_A	1	0	0.31000
ATOM	342	CA	GLU	A	109	19.71720	51.76530	2.28998	C_3	4	0	0.16000
ATOM	343	HCA	GLU	A	109	20.27254	51.32103	1.45672	H_	1	0	0.00000
ATOM	344	C	GLU	A	109	20.48681	52.95004	2.79872	C_R	3	0	0.51000
ATOM	345	O	GLU	A	109	21.50003	53.34177	2.17344	O_2	1	2	-0.51000
ATOM	346	CB	GLU	A	109	18.30777	52.14600	1.73069	C_3	4	0	0.00000
ATOM	347	HCB	GLU	A	109	17.74037	52.65943	2.50346	H_	1	0	0.00000
ATOM	348	HCB	GLU	A	109	17.76849	51.22685	1.48193	H_	1	0	0.00000
ATOM	349	CG	GLU	A	109	18.35178	53.03373	0.45326	C_3	4	0	-0.10000
ATOM	350	HCG	GLU	A	109	18.90173	52.49127	-0.31929	H_	1	0	0.00000
ATOM	351	HCG	GLU	A	109	18.90407	53.94696	0.67919	H_	1	0	0.00000
ATOM	352	CD	GLU	A	109	17.04922	53.43520	-0.12839	C_R	3	0	0.62000
ATOM	353	OE1	GLU	A	109	15.92689	53.21102	0.37803	O_2	1	2	-0.76000
ATOM	354	OE2	GLU	A	109	17.01384	54.07119	-1.20224	O_2	1	2	-0.76000
ATOM	355	N	LEU	A	110	20.16513	53.55032	3.96971	N_R	3	0	-0.47000
ATOM	356	HN	LEU	A	110	19.36831	53.22866	4.39070	H_A	1	0	0.31000
ATOM	357	CA	LEU	A	110	20.90791	54.60438	4.62314	C_3	4	0	0.16000
ATOM	358	HCA	LEU	A	110	20.88153	55.47468	3.96725	H_	1	0	0.00000
ATOM	359	C	LEU	A	110	22.33684	54.25631	4.86795	C_R	3	0	0.51000
ATOM	360	O	LEU	A	110	23.25071	55.02345	4.47632	O_2	1	2	-0.51000
ATOM	361	CB	LEU	A	110	20.23787	54.98659	5.98029	C_3	4	0	0.00000
ATOM	362	HCB	LEU	A	110	20.91129	55.64104	6.54187	H_	1	0	0.00000
ATOM	363	HCB	LEU	A	110	20.12411	54.07256	6.56871	H_	1	0	0.00000
ATOM	364	CG	LEU	A	110	18.85104	55.69493	5.87183	C_3	4	0	0.00000
ATOM	365	HCG	LEU	A	110	18.25129	55.15587	5.13784	H_	1	0	0.00000
ATOM	366	CD1	LEU	A	110	18.07812	55.63913	7.22033	C_3	4	0	0.00000
ATOM	367	HCD1	LEU	A	110	18.64216	56.13307	8.01131	H_	1	0	0.00000
ATOM	368	HCD1	LEU	A	110	17.10860	56.12794	7.12785	H_	1	0	0.00000
ATOM	369	HCD1	LEU	A	110	17.90079	54.60503	7.51391	H_	1	0	0.00000
ATOM	370	CD2	LEU	A	110	18.98206	57.16318	5.38483	C_3	4	0	0.00000
ATOM	371	HCD2	LEU	A	110	19.42571	57.20135	4.39075	H_	1	0	0.00000
ATOM	372	HCD2	LEU	A	110	18.00301	57.63355	5.32293	H_	1	0	0.00000
ATOM	373	HCD2	LEU	A	110	19.60215	57.74507	6.06886	H_	1	0	0.00000
ATOM	374	N	VAL	A	111	22.66375	53.11023	5.50638	N_R	3	0	-0.47000
ATOM	375	HN	VAL	A	111	21.94466	52.57829	5.84585	H_A	1	0	0.31000
ATOM	376	CA	VAL	A	111	24.00097	52.62769	5.72182	C_3	4	0	0.16000
ATOM	377	HCA	VAL	A	111	24.51439	53.37638	6.33936	H_	1	0	0.00000
ATOM	378	C	VAL	A	111	24.74826	52.52149	4.42876	C_R	3	0	0.51000
ATOM	379	O	VAL	A	111	25.87854	53.04511	4.36346	O_2	1	2	-0.51000
ATOM	380	CB	VAL	A	111	23.95427	51.30200	6.55856	C_3	4	0	0.00000
ATOM	381	HCB	VAL	A	111	23.21289	50.63843	6.10596	H_	1	0	0.00000
ATOM	382	CG1	VAL	A	111	25.29703	50.52282	6.56698	C_3	4	0	0.00000
ATOM	383	HCG1	VAL	A	111	26.10270	51.15663	6.93721	H_	1	0	0.00000
ATOM	384	HCG1	VAL	A	111	25.22641	49.63231	7.19325	H_	1	0	0.00000
ATOM	385	HCG1	VAL	A	111	25.53913	50.19554	5.55801	H_	1	0	0.00000
ATOM	386	CG2	VAL	A	111	23.51568	51.57280	8.02935	C_3	4	0	0.00000
ATOM	387	HCG2	VAL	A	111	22.55416	52.08219	8.06497	H_	1	0	0.00000
ATOM	388	HCG2	VAL	A	111	23.41709	50.63476	8.57721	H_	1	0	0.00000
ATOM	389	HCG2	VAL	A	111	24.24876	52.19922	8.54110	H_	1	0	0.00000
ATOM	390	N	GLU	A	112	24.24706	51.92628	3.32302	N_R	3	0	-0.47000
ATOM	391	HN	GLU	A	112	23.40959	51.48355	3.42329	H_A	1	0	0.31000

ATOM	392	CA	GLU	A	112	24.86087	51.90554	2.01628	C_3	4	0	0.16000
ATOM	393	HCA	GLU	A	112	25.83676	51.43572	2.12842	H_	1	0	0.00000
ATOM	394	C	GLU	A	112	25.10128	53.27000	1.45253	C_R	3	0	0.51000
ATOM	395	O	GLU	A	112	26.23966	53.55133	1.00085	O_2	1	2	-0.51000
ATOM	396	CB	GLU	A	112	24.04540	50.98661	1.05759	C_3	4	0	0.00000
ATOM	397	HCB	GLU	A	112	24.34056	51.16991	0.01911	H_	1	0	0.00000
ATOM	398	HCB	GLU	A	112	22.98562	51.24285	1.13526	H_	1	0	0.00000
ATOM	399	CG	GLU	A	112	24.21567	49.46802	1.36436	C_3	4	0	-0.10000
ATOM	400	HCG	GLU	A	112	23.40254	48.91212	0.89159	H_	1	0	0.00000
ATOM	401	HCG	GLU	A	112	24.13352	49.29521	2.44049	H_	1	0	0.00000
ATOM	402	CD	GLU	A	112	25.49870	48.92012	0.87565	C_R	3	0	0.62000
ATOM	403	OE1	GLU	A	112	25.63065	48.55231	-0.31139	O_2	1	2	-0.76000
ATOM	404	OE2	GLU	A	112	26.47830	48.77705	1.64134	O_2	1	2	-0.76000
ATOM	405	N	ILE	A	113	24.15471	54.24006	1.48541	N_R	3	0	-0.47000
ATOM	406	HN	ILE	A	113	23.27519	53.97288	1.75347	H_A	1	0	0.31000
ATOM	407	CA	ILE	A	113	24.38110	55.62753	1.14033	C_3	4	0	0.16000
ATOM	408	HCA	ILE	A	113	24.63748	55.64737	0.07582	H_	1	0	0.00000
ATOM	409	C	ILE	A	113	25.54741	56.18590	1.89640	C_R	3	0	0.51000
ATOM	410	O	ILE	A	113	26.48137	56.72553	1.26244	O_2	1	2	-0.51000
ATOM	411	CB	ILE	A	113	23.07014	56.48549	1.30125	C_3	4	0	0.00000
ATOM	412	HCB	ILE	A	113	22.66734	56.29729	2.29916	H_	1	0	0.00000
ATOM	413	CG1	ILE	A	113	21.98471	56.05376	0.25599	C_3	4	0	0.00000
ATOM	414	HCG1	ILE	A	113	21.93225	54.96395	0.20655	H_	1	0	0.00000
ATOM	415	HCG1	ILE	A	113	22.28790	56.38985	-0.73806	H_	1	0	0.00000
ATOM	416	CG2	ILE	A	113	23.34176	58.02164	1.20693	C_3	4	0	0.00000
ATOM	417	HCG2	ILE	A	113	23.78536	58.27129	0.24246	H_	1	0	0.00000
ATOM	418	HCG2	ILE	A	113	22.42386	58.59160	1.32823	H_	1	0	0.00000
ATOM	419	HCG2	ILE	A	113	24.01705	58.34779	1.99742	H_	1	0	0.00000
ATOM	420	CD1	ILE	A	113	20.54575	56.55629	0.53865	C_3	4	0	0.00000
ATOM	421	HCD1	ILE	A	113	20.49238	57.64241	0.51425	H_	1	0	0.00000
ATOM	422	HCD1	ILE	A	113	19.86971	56.17167	-0.22474	H_	1	0	0.00000
ATOM	423	HCD1	ILE	A	113	20.20747	56.20539	1.51333	H_	1	0	0.00000
ATOM	424	N	PHE	A	114	25.64188	56.12804	3.24457	N_R	3	0	-0.47000
ATOM	425	HN	PHE	A	114	24.89667	55.73504	3.70470	H_A	1	0	0.31000
ATOM	426	CA	PHE	A	114	26.76048	56.65046	4.00003	C_3	4	0	0.16000
ATOM	427	HCA	PHE	A	114	26.97687	57.63205	3.56976	H_	1	0	0.00000
ATOM	428	C	PHE	A	114	28.05144	55.89733	3.84049	C_R	3	0	0.51000
ATOM	429	O	PHE	A	114	29.14446	56.51516	3.84460	O_2	1	2	-0.51000
ATOM	430	CB	PHE	A	114	26.31541	56.90438	5.47039	C_3	4	0	0.00000
ATOM	431	HCB	PHE	A	114	27.17519	57.13872	6.08933	H_	1	0	0.00000
ATOM	432	HCB	PHE	A	114	25.87126	55.98902	5.87233	H_	1	0	0.00000
ATOM	433	CG	PHE	A	114	25.38690	58.06470	5.59494	C_R	3	0	0.00000
ATOM	434	CD1	PHE	A	114	25.83748	59.36989	5.27229	C_R	3	0	0.00000
ATOM	435	HCD1	PHE	A	114	26.80231	59.52763	4.97606	H_	1	0	0.00000
ATOM	436	CD2	PHE	A	114	24.05184	57.90245	6.03242	C_R	3	0	0.00000
ATOM	437	HCD2	PHE	A	114	23.69833	56.97782	6.28239	H_	1	0	0.00000
ATOM	438	CE1	PHE	A	114	24.97278	60.47401	5.34666	C_R	3	0	0.00000
ATOM	439	HCE1	PHE	A	114	25.30763	61.40754	5.09611	H_	1	0	0.00000
ATOM	440	CE2	PHE	A	114	23.19037	59.01099	6.13208	C_R	3	0	0.00000
ATOM	441	HCE2	PHE	A	114	22.22818	58.88592	6.45461	H_	1	0	0.00000
ATOM	442	CZ	PHE	A	114	23.65263	60.29303	5.78694	C_R	3	0	0.00000
ATOM	443	HCZ	PHE	A	114	23.03695	61.10032	5.86896	H_	1	0	0.00000
ATOM	444	N	ARG	A	115	28.11730	54.57112	3.58784	N_R	3	0	-0.47000
ATOM	445	HN	ARG	A	115	27.32984	54.06801	3.76467	H_A	1	0	0.31000
ATOM	446	CA	ARG	A	115	29.26508	53.85746	3.07966	C_3	4	0	0.16000
ATOM	447	HCA	ARG	A	115	30.07088	53.94797	3.81507	H_	1	0	0.00000
ATOM	448	C	ARG	A	115	29.72417	54.44129	1.78678	C_R	3	0	0.51000

ATOM	449	O	ARG	A	115	30.94724	54.66075	1.63335	O_2	1	2	-0.51000
ATOM	450	CB	ARG	A	115	28.97315	52.34393	2.88895	C_3	4	0	0.00000
ATOM	451	HCB	ARG	A	115	29.77564	51.88945	2.29883	H_	1	0	0.00000
ATOM	452	HCB	ARG	A	115	28.05640	52.24251	2.31031	H_	1	0	0.00000
ATOM	453	CG	ARG	A	115	28.85677	51.52403	4.20693	C_3	4	0	0.00000
ATOM	454	HCG	ARG	A	115	28.25941	52.06902	4.94121	H_	1	0	0.00000
ATOM	455	HCG	ARG	A	115	29.85647	51.38370	4.62792	H_	1	0	0.00000
ATOM	456	CD	ARG	A	115	28.20548	50.14270	3.94897	C_3	4	0	0.38000
ATOM	457	HCD	ARG	A	115	28.75040	49.62239	3.15624	H_	1	0	0.00000
ATOM	458	HCD	ARG	A	115	27.17914	50.30973	3.62527	H_	1	0	0.00000
ATOM	459	NE	ARG	A	115	28.17928	49.31853	5.11110	N_R	3	0	-0.70000
ATOM	460	HNE	ARG	A	115	28.63387	49.63514	5.89911	H_A	1	0	0.44000
ATOM	461	CZ	ARG	A	115	27.55915	48.13664	5.17901	C_R	3	0	0.64000
ATOM	462	NH1	ARG	A	115	26.88563	47.57527	4.18411	N_R	3	0	-0.80000
ATOM	463	HNH1	ARG	A	115	26.46506	46.71846	4.30312	H_A	1	0	0.46000
ATOM	464	HNH1	ARG	A	115	26.79558	48.01804	3.33607	H_A	1	0	0.46000
ATOM	465	NH2	ARG	A	115	27.59109	47.46987	6.32024	N_R	3	0	-0.80000
ATOM	466	HNH2	ARG	A	115	27.13815	46.61952	6.39108	H_A	1	0	0.46000
ATOM	467	HNH2	ARG	A	115	28.05349	47.83582	7.08421	H_A	1	0	0.46000
ATOM	468	N	ALA	A	116	28.86339	54.78844	0.79889	N_R	3	0	-0.47000
ATOM	469	HN	ALA	A	116	27.95933	54.47264	0.87637	H_A	1	0	0.31000
ATOM	470	CA	ALA	A	116	29.23048	55.56746	-0.36045	C_3	4	0	0.16000
ATOM	471	HCA	ALA	A	116	30.03992	55.01790	-0.85475	H_	1	0	0.00000
ATOM	472	C	ALA	A	116	29.77176	56.93713	-0.06510	C_R	3	0	0.51000
ATOM	473	O	ALA	A	116	30.25099	57.58456	-1.02651	O_2	1	2	-0.51000
ATOM	474	CB	ALA	A	116	28.06580	55.60240	-1.38665	C_3	4	0	0.00000
ATOM	475	HCB	ALA	A	116	27.19063	56.10332	-0.98501	H_	1	0	0.00000
ATOM	476	HCB	ALA	A	116	28.36836	56.12962	-2.29288	H_	1	0	0.00000
ATOM	477	HCB	ALA	A	116	27.78359	54.58615	-1.66586	H_	1	0	0.00000
ATOM	478	N	LEU	A	117	29.85237	57.47065	1.18552	N_R	3	0	-0.47000
ATOM	479	HN	LEU	A	117	29.47193	57.00070	1.92842	H_A	1	0	0.31000
ATOM	480	CA	LEU	A	117	30.56863	58.66301	1.57283	C_3	4	0	0.16000
ATOM	481	HCA	LEU	A	117	31.02125	59.15657	0.70974	H_	1	0	0.00000
ATOM	482	C	LEU	A	117	31.71094	58.31077	2.47792	C_R	3	0	0.51000
ATOM	483	O	LEU	A	117	32.40848	59.22163	2.98966	O_2	1	2	-0.51000
ATOM	484	CB	LEU	A	117	29.59973	59.68193	2.25928	C_3	4	0	0.00000
ATOM	485	HCB	LEU	A	117	30.21144	60.37872	2.83960	H_	1	0	0.00000
ATOM	486	HCB	LEU	A	117	28.95979	59.16217	2.97852	H_	1	0	0.00000
ATOM	487	CG	LEU	A	117	28.71797	60.55325	1.30429	C_3	4	0	0.00000
ATOM	488	HCG	LEU	A	117	29.32148	60.83691	0.43764	H_	1	0	0.00000
ATOM	489	CD1	LEU	A	117	27.46273	59.80558	0.77947	C_3	4	0	0.00000
ATOM	490	HCD1	LEU	A	117	26.82320	59.49720	1.60882	H_	1	0	0.00000
ATOM	491	HCD1	LEU	A	117	26.88329	60.45228	0.11846	H_	1	0	0.00000
ATOM	492	HCD1	LEU	A	117	27.75057	58.92590	0.20764	H_	1	0	0.00000
ATOM	493	CD2	LEU	A	117	28.29267	61.87444	2.00434	C_3	4	0	0.00000
ATOM	494	HCD2	LEU	A	117	29.17142	62.45610	2.29139	H_	1	0	0.00000
ATOM	495	HCD2	LEU	A	117	27.70379	62.48641	1.32558	H_	1	0	0.00000
ATOM	496	HCD2	LEU	A	117	27.70055	61.66845	2.89902	H_	1	0	0.00000
ATOM	497	N	GLY	A	118	32.05826	57.02923	2.74719	N_R	3	0	-0.47000
ATOM	498	HN	GLY	A	118	31.58135	56.31796	2.32705	H_A	1	0	0.31000
ATOM	499	CA	GLY	A	118	33.11171	56.59387	3.60131	C_3	4	0	0.16000
ATOM	500	HCA	GLY	A	118	34.02036	57.15864	3.37669	H_	1	0	0.00000
ATOM	501	HCA	GLY	A	118	33.31763	55.55345	3.34251	H_	1	0	0.00000
ATOM	502	C	GLY	A	118	32.81423	56.62521	5.05190	C_R	3	0	0.51000
ATOM	503	O	GLY	A	118	33.77897	56.84965	5.82255	O_2	1	2	-0.51000
ATOM	504	N	TYR	A	119	31.57509	56.38440	5.55092	N_R	3	0	-0.47000
ATOM	505	HN	TYR	A	119	30.83412	56.33375	4.93599	H_A	1	0	0.31000

ATOM	506	CA	TYR	A	119	31.26580	56.20491	6.95058	C_3	4	0	0.16000
ATOM	507	HCA	TYR	A	119	31.95488	56.77615	7.56934	H_	1	0	0.00000
ATOM	508	C	TYR	A	119	31.35641	54.76629	7.34073	C_R	3	0	0.51000
ATOM	509	O	TYR	A	119	30.74765	53.91466	6.64793	O_2	1	2	-0.51000
ATOM	510	CB	TYR	A	119	29.83862	56.71944	7.28400	C_3	4	0	0.00000
ATOM	511	HCB	TYR	A	119	29.57430	56.34867	8.27776	H_	1	0	0.00000
ATOM	512	HCB	TYR	A	119	29.14751	56.24434	6.59226	H_	1	0	0.00000
ATOM	513	CG	TYR	A	119	29.61614	58.19712	7.24922	C_R	3	0	0.00000
ATOM	514	CD1	TYR	A	119	29.79702	58.95323	6.06564	C_R	3	0	0.00000
ATOM	515	HCD1	TYR	A	119	30.15678	58.51708	5.21705	H_	1	0	0.00000
ATOM	516	CD2	TYR	A	119	29.14626	58.87540	8.40161	C_R	3	0	0.00000
ATOM	517	HCD2	TYR	A	119	29.02278	58.37630	9.28362	H_	1	0	0.00000
ATOM	518	CE1	TYR	A	119	29.47117	60.32194	6.02257	C_R	3	0	0.00000
ATOM	519	HCE1	TYR	A	119	29.59963	60.84967	5.15778	H_	1	0	0.00000
ATOM	520	CE2	TYR	A	119	28.81111	60.24147	8.35733	C_R	3	0	0.00000
ATOM	521	HCE2	TYR	A	119	28.44875	60.70159	9.19456	H_	1	0	0.00000
ATOM	522	CZ	TYR	A	119	28.95433	60.96224	7.15929	C_R	3	0	0.11000
ATOM	523	OH	TYR	A	119	28.59067	62.26110	7.08605	O_R	2	2	-0.54000
ATOM	524	HOH	TYR	A	119	28.66332	62.74587	6.24184	H_A	1	0	0.43000
ATOM	525	N	GLN	A	120	32.01909	54.38065	8.46218	N_R	3	0	-0.47000
ATOM	526	HN	GLN	A	120	32.45311	55.07990	8.96683	H_A	1	0	0.31000
ATOM	527	CA	GLN	A	120	32.05561	53.01783	8.95906	C_3	4	0	0.16000
ATOM	528	HCA	GLN	A	120	32.04921	52.33580	8.10106	H_	1	0	0.00000
ATOM	529	C	GLN	A	120	30.89469	52.69450	9.80201	C_2	3	0	0.51000
ATOM	530	O	GLN	A	120	30.53396	53.47979	10.66773	O_2	1	2	-0.51000
ATOM	531	CB	GLN	A	120	33.38389	52.71069	9.70728	C_3	4	0	0.00000
ATOM	532	HCB	GLN	A	120	33.35629	51.67049	10.04817	H_	1	0	0.00000
ATOM	533	HCB	GLN	A	120	33.45827	53.34188	10.58899	H_	1	0	0.00000
ATOM	534	CG	GLN	A	120	34.65924	52.91793	8.84540	C_3	4	0	0.00000
ATOM	535	HCG	GLN	A	120	34.73962	53.97504	8.57758	H_	1	0	0.00000
ATOM	536	HCG	GLN	A	120	34.58019	52.34388	7.91914	H_	1	0	0.00000
ATOM	537	CD	GLN	A	120	35.88734	52.49784	9.55190	C_R	3	0	0.55000
ATOM	538	OE1	GLN	A	120	36.75572	53.32407	9.90240	O_2	1	2	-0.55000
ATOM	539	NE2	GLN	A	120	36.13491	51.21269	9.83507	N_R	3	0	-0.60000
ATOM	540	HNE2	GLN	A	120	36.95445	50.98314	10.29723	H_A	1	0	0.30000
ATOM	541	HNE2	GLN	A	120	35.50533	50.52354	9.58103	H_A	1	0	0.30000
ATOM	542	N	ALA	A	121	30.23830	51.55436	9.65300	N_R	3	0	-0.47000
ATOM	543	HN	ALA	A	121	30.60117	50.92684	9.01229	H_A	1	0	0.31000
ATOM	544	CA	ALA	A	121	29.04083	51.14984	10.35334	C_3	4	0	0.16000
ATOM	545	HCA	ALA	A	121	28.43964	52.03239	10.55541	H_	1	0	0.00000
ATOM	546	C	ALA	A	121	29.31170	50.45395	11.64327	C_R	3	0	0.51000
ATOM	547	O	ALA	A	121	29.98253	49.39516	11.60885	O_2	1	2	-0.51000
ATOM	548	CB	ALA	A	121	28.18941	50.26954	9.40716	C_3	4	0	0.00000
ATOM	549	HCB	ALA	A	121	28.73332	49.36695	9.12171	H_	1	0	0.00000
ATOM	550	HCB	ALA	A	121	27.25472	49.98053	9.89257	H_	1	0	0.00000
ATOM	551	HCB	ALA	A	121	27.94840	50.82786	8.50154	H_	1	0	0.00000
ATOM	552	N	VAL	A	122	28.86268	50.96168	12.82172	N_R	3	0	-0.47000
ATOM	553	HN	VAL	A	122	28.37920	51.78868	12.75234	H_A	1	0	0.31000
ATOM	554	CA	VAL	A	122	29.11182	50.41114	14.14175	C_3	4	0	0.16000
ATOM	555	HCA	VAL	A	122	29.33084	49.34310	14.03704	H_	1	0	0.00000
ATOM	556	C	VAL	A	122	27.92059	50.48428	15.04952	C_R	3	0	0.51000
ATOM	557	O	VAL	A	122	27.38425	51.59131	15.26649	O_2	1	2	-0.51000
ATOM	558	CB	VAL	A	122	30.37910	51.07189	14.79848	C_3	4	0	0.00000
ATOM	559	HCB	VAL	A	122	30.44427	50.71545	15.83338	H_	1	0	0.00000
ATOM	560	CG1	VAL	A	122	31.69968	50.61998	14.11008	C_3	4	0	0.00000
ATOM	561	HCG1	VAL	A	122	31.73787	50.96095	13.07513	H_	1	0	0.00000
ATOM	562	HCG1	VAL	A	122	32.56352	51.02936	14.63510	H_	1	0	0.00000

ATOM	563	HCG1	VAL	A	122	31.78428	49.53217	14.12624	H_	1	0	0.00000
ATOM	564	CG2	VAL	A	122	30.32556	52.62516	14.85578	C_3	4	0	0.00000
ATOM	565	HCG2	VAL	A	122	29.50154	52.96388	15.47931	H_	1	0	0.00000
ATOM	566	HCG2	VAL	A	122	31.24243	53.02530	15.28646	H_	1	0	0.00000
ATOM	567	HCG2	VAL	A	122	30.20466	53.04036	13.85602	H_	1	0	0.00000
ATOM	568	N	GLU	A	123	27.43691	49.38434	15.68097	N_R	3	0	-0.47000
ATOM	569	HN	GLU	A	123	27.89758	48.55157	15.50764	H_A	1	0	0.31000
ATOM	570	CA	GLU	A	123	26.32112	49.31931	16.60409	C_3	4	0	0.16000
ATOM	571	HCA	GLU	A	123	25.59812	50.10664	16.36905	H_	1	0	0.00000
ATOM	572	C	GLU	A	123	26.71381	49.48289	18.04060	C_R	3	0	0.51000
ATOM	573	O	GLU	A	123	27.92573	49.53047	18.35588	O_2	1	2	-0.51000
ATOM	574	CB	GLU	A	123	25.61731	47.94059	16.41676	C_3	4	0	0.00000
ATOM	575	HCB	GLU	A	123	24.84510	47.81340	17.18275	H_	1	0	0.00000
ATOM	576	HCB	GLU	A	123	26.35760	47.14664	16.56234	H_	1	0	0.00000
ATOM	577	CG	GLU	A	123	24.93569	47.76034	15.03378	C_3	4	0	-0.10000
ATOM	578	HCG	GLU	A	123	25.64629	47.99920	14.23848	H_	1	0	0.00000
ATOM	579	HCG	GLU	A	123	24.09646	48.45484	14.95374	H_	1	0	0.00000
ATOM	580	CD	GLU	A	123	24.43190	46.38517	14.84226	C_R	3	0	0.62000
ATOM	581	OE1	GLU	A	123	23.56022	45.90979	15.60431	O_2	1	2	-0.76000
ATOM	582	OE2	GLU	A	123	24.87628	45.66092	13.92227	O_2	1	2	-0.76000
ATOM	583	N	GLY	A	124	25.76460	49.56330	19.01261	N_R	3	0	-0.47000
ATOM	584	HN	GLY	A	124	24.84209	49.52792	18.71601	H_A	1	0	0.31000
ATOM	585	CA	GLY	A	124	25.99558	49.70180	20.43035	C_3	4	0	0.16000
ATOM	586	HCA	GLY	A	124	25.93535	50.76744	20.65631	H_	1	0	0.00000
ATOM	587	HCA	GLY	A	124	26.99955	49.35540	20.68293	H_	1	0	0.00000
ATOM	588	C	GLY	A	124	25.02818	48.98804	21.32397	C_R	3	0	0.51000
ATOM	589	O	GLY	A	124	24.10433	48.33859	20.77056	O_2	1	2	-0.51000
ATOM	590	N	PRO	A	125	25.09080	49.02708	22.69845	N_R	3	0	-0.29000
ATOM	591	CA	PRO	A	125	24.18220	48.33798	23.59996	C_3	4	0	0.11000
ATOM	592	HCA	PRO	A	125	23.97033	47.33329	23.21687	H_	1	0	0.00000
ATOM	593	C	PRO	A	125	22.91826	49.03144	23.88979	C_2	3	0	0.51000
ATOM	594	O	PRO	A	125	22.91420	50.25153	24.01837	O_2	1	2	-0.51000
ATOM	595	CB	PRO	A	125	25.02107	48.18421	24.89073	C_3	4	0	0.00000
ATOM	596	HCB	PRO	A	125	25.65832	47.29721	24.81805	H_	1	0	0.00000
ATOM	597	HCB	PRO	A	125	24.41568	48.09809	25.79706	H_	1	0	0.00000
ATOM	598	CG	PRO	A	125	25.89647	49.44305	24.90939	C_3	4	0	0.00000
ATOM	599	HCG	PRO	A	125	26.83756	49.26248	25.43382	H_	1	0	0.00000
ATOM	600	HCG	PRO	A	125	25.36701	50.26883	25.39460	H_	1	0	0.00000
ATOM	601	CD	PRO	A	125	26.11360	49.74164	23.41375	C_3	4	0	0.18000
ATOM	602	HCD	PRO	A	125	26.04956	50.81710	23.22626	H_	1	0	0.00000
ATOM	603	HCD	PRO	A	125	27.10313	49.38175	23.11791	H_	1	0	0.00000
ATOM	604	N	GLU	A	126	21.79169	48.34396	24.00845	N_R	3	0	-0.47000
ATOM	605	HN	GLU	A	126	21.86682	47.38060	23.92384	H_A	1	0	0.31000
ATOM	606	CA	GLU	A	126	20.46705	48.86961	24.25833	C_3	4	0	0.16000
ATOM	607	HCA	GLU	A	126	20.32318	49.73961	23.61501	H_	1	0	0.00000
ATOM	608	C	GLU	A	126	20.25456	49.29351	25.66907	C_R	3	0	0.51000
ATOM	609	O	GLU	A	126	19.86495	50.45981	25.92959	O_2	1	2	-0.51000
ATOM	610	CB	GLU	A	126	19.38557	47.82705	23.84840	C_3	4	0	0.00000
ATOM	611	HCB	GLU	A	126	18.40132	48.24979	24.07685	H_	1	0	0.00000
ATOM	612	HCB	GLU	A	126	19.49809	46.91390	24.44179	H_	1	0	0.00000
ATOM	613	CG	GLU	A	126	19.44197	47.45738	22.34179	C_3	4	0	-0.10000
ATOM	614	HCG	GLU	A	126	20.25350	46.74985	22.15721	H_	1	0	0.00000
ATOM	615	HCG	GLU	A	126	19.65131	48.35546	21.76090	H_	1	0	0.00000
ATOM	616	CD	GLU	A	126	18.17938	46.88251	21.85582	C_R	3	0	0.62000
ATOM	617	OE1	GLU	A	126	17.79536	45.73279	22.15466	O_2	1	2	-0.76000
ATOM	618	OE2	GLU	A	126	17.43780	47.53075	21.09294	O_2	1	2	-0.76000
ATOM	619	N	VAL	A	127	20.49719	48.41799	26.67238	N_R	3	0	-0.47000

ATOM	620	HN	VAL	A	127	20.71813	47.51002	26.42640	H_A	1	0	0.31000
ATOM	621	CA	VAL	A	127	20.58987	48.76884	28.06266	C_3	4	0	0.16000
ATOM	622	HCA	VAL	A	127	19.70880	49.36099	28.33425	H_	1	0	0.00000
ATOM	623	C	VAL	A	127	21.82425	49.58797	28.21174	C_R	3	0	0.51000
ATOM	624	O	VAL	A	127	22.91605	49.10686	27.82735	O_2	1	2	-0.51000
ATOM	625	CB	VAL	A	127	20.61732	47.50854	28.99232	C_3	4	0	0.00000
ATOM	626	HCB	VAL	A	127	21.51339	46.92564	28.75583	H_	1	0	0.00000
ATOM	627	CG1	VAL	A	127	20.69658	47.90124	30.49866	C_3	4	0	0.00000
ATOM	628	HCG1	VAL	A	127	19.84894	48.52753	30.77931	H_	1	0	0.00000
ATOM	629	HCG1	VAL	A	127	20.69218	47.01152	31.12828	H_	1	0	0.00000
ATOM	630	HCG1	VAL	A	127	21.61528	48.45081	30.70761	H_	1	0	0.00000
ATOM	631	CG2	VAL	A	127	19.39595	46.57693	28.75418	C_3	4	0	0.00000
ATOM	632	HCG2	VAL	A	127	19.37623	46.22195	27.72255	H_	1	0	0.00000
ATOM	633	HCG2	VAL	A	127	19.45087	45.70268	29.40509	H_	1	0	0.00000
ATOM	634	HCG2	VAL	A	127	18.46446	47.10500	28.95794	H_	1	0	0.00000
ATOM	635	N	GLU	A	128	21.74966	50.84432	28.69103	N_R	3	0	-0.47000
ATOM	636	HN	GLU	A	128	20.89015	51.15007	28.97257	H_A	1	0	0.31000
ATOM	637	CA	GLU	A	128	22.83013	51.77900	28.82015	C_3	4	0	0.16000
ATOM	638	HCA	GLU	A	128	23.78395	51.26572	28.68675	H_	1	0	0.00000
ATOM	639	C	GLU	A	128	22.83057	52.38210	30.18254	C_R	3	0	0.51000
ATOM	640	O	GLU	A	128	21.87619	52.17707	30.97001	O_2	1	2	-0.51000
ATOM	641	CB	GLU	A	128	22.65872	52.81416	27.66401	C_3	4	0	0.00000
ATOM	642	HCB	GLU	A	128	21.67297	53.28112	27.76086	H_	1	0	0.00000
ATOM	643	HCB	GLU	A	128	22.66205	52.26438	26.71710	H_	1	0	0.00000
ATOM	644	CG	GLU	A	128	23.70112	53.95828	27.53008	C_3	4	0	-0.10000
ATOM	645	HCG	GLU	A	128	23.61584	54.63333	28.37790	H_	1	0	0.00000
ATOM	646	HCG	GLU	A	128	23.43428	54.54339	26.64541	H_	1	0	0.00000
ATOM	647	CD	GLU	A	128	25.10518	53.51973	27.40572	C_R	3	0	0.62000
ATOM	648	OE1	GLU	A	128	25.76250	53.74233	26.36715	O_2	1	2	-0.76000
ATOM	649	OE2	GLU	A	128	25.72317	52.97945	28.35140	O_2	1	2	-0.76000
ATOM	650	N	SER	A	129	23.87149	53.15117	30.57288	N_R	3	0	-0.47000
ATOM	651	HN	SER	A	129	24.58144	53.19641	29.92591	H_A	1	0	0.31000
ATOM	652	CA	SER	A	129	23.94216	53.91806	31.79030	C_3	4	0	0.16000
ATOM	653	HCA	SER	A	129	23.23978	53.51524	32.52575	H_	1	0	0.00000
ATOM	654	C	SER	A	129	23.59854	55.33198	31.52298	C_R	3	0	0.51000
ATOM	655	O	SER	A	129	24.07290	55.93332	30.52668	O_2	1	2	-0.51000
ATOM	656	CB	SER	A	129	25.32931	53.89879	32.48855	C_3	4	0	0.23000
ATOM	657	HCB	SER	A	129	26.11428	54.19236	31.78763	H_	1	0	0.00000
ATOM	658	HCB	SER	A	129	25.55335	52.90324	32.86246	H_	1	0	0.00000
ATOM	659	OG	SER	A	129	25.35343	54.78335	33.61642	O_3	2	2	-0.66000
ATOM	660	HOG	SER	A	129	24.79617	54.34400	34.29535	H_A	1	0	0.43000
ATOM	661	N	GLU	A	130	22.90428	56.00869	32.46458	N_R	3	0	-0.47000
ATOM	662	HN	GLU	A	130	22.45163	55.48610	33.13224	H_A	1	0	0.31000
ATOM	663	CA	GLU	A	130	22.81014	57.43702	32.56797	C_3	4	0	0.16000
ATOM	664	HCA	GLU	A	130	22.12807	57.77054	31.77910	H_	1	0	0.00000
ATOM	665	C	GLU	A	130	24.11738	58.14273	32.40160	C_R	3	0	0.51000
ATOM	666	O	GLU	A	130	24.12812	59.26094	31.82436	O_2	1	2	-0.51000
ATOM	667	CB	GLU	A	130	22.15281	57.74504	33.93999	C_3	4	0	0.00000
ATOM	668	HCB	GLU	A	130	22.72316	57.26084	34.73984	H_	1	0	0.00000
ATOM	669	HCB	GLU	A	130	21.15340	57.30039	33.92827	H_	1	0	0.00000
ATOM	670	CG	GLU	A	130	22.02904	59.25340	34.27006	C_3	4	0	-0.10000
ATOM	671	HCG	GLU	A	130	21.75396	59.79983	33.37176	H_	1	0	0.00000
ATOM	672	HCG	GLU	A	130	22.99306	59.63709	34.60843	H_	1	0	0.00000
ATOM	673	CD	GLU	A	130	21.03589	59.50181	35.32135	C_R	3	0	0.62000
ATOM	674	OE1	GLU	A	130	21.17784	59.01985	36.46204	O_2	1	2	-0.76000
ATOM	675	OE2	GLU	A	130	20.00854	60.18311	35.11718	O_2	1	2	-0.76000
ATOM	676	N	PHE	A	131	25.28706	57.54157	32.74797	N_R	3	0	-0.47000

ATOM	677	HN	PHE	A	131	25.25649	56.65252	33.10427	H_A	1	0	0.31000
ATOM	678	CA	PHE	A	131	26.58878	58.09993	32.53820	C_3	4	0	0.16000
ATOM	679	HCA	PHE	A	131	26.60961	59.01770	33.12066	H_	1	0	0.00000
ATOM	680	C	PHE	A	131	26.84424	58.41191	31.10319	C_R	3	0	0.51000
ATOM	681	O	PHE	A	131	27.50999	59.43361	30.82476	O_2	1	2	-0.51000
ATOM	682	CB	PHE	A	131	27.71500	57.17825	33.09871	C_3	4	0	0.00000
ATOM	683	HC	PHE	A	131	27.63845	56.19974	32.61701	H_	1	0	0.00000
ATOM	684	CB	PHE	A	131	27.56135	57.01783	34.16943	H_	1	0	0.00000
ATOM	685	CG	PHE	A	131	29.07506	57.75771	32.88588	C_R	3	0	0.00000
ATOM	686	CD1	PHE	A	131	29.49089	58.90304	33.60667	C_R	3	0	0.00000
ATOM	687	HCD1	PHE	A	131	28.89159	59.30235	34.33288	H_	1	0	0.00000
ATOM	688	CD2	PHE	A	131	29.94091	57.22790	31.89927	C_R	3	0	0.00000
ATOM	689	HCD2	PHE	A	131	29.67346	56.39732	31.36816	H_	1	0	0.00000
ATOM	690	CE1	PHE	A	131	30.72152	59.52389	33.32161	C_R	3	0	0.00000
ATOM	691	HCE1	PHE	A	131	31.00683	60.35774	33.84000	H_	1	0	0.00000
ATOM	692	CE2	PHE	A	131	31.16614	57.85409	31.60777	C_R	3	0	0.00000
ATOM	693	HCE2	PHE	A	131	31.77059	57.47655	30.87564	H_	1	0	0.00000
ATOM	694	CZ	PHE	A	131	31.55405	59.00552	32.31479	C_R	3	0	0.00000
ATOM	695	HCZ	PHE	A	131	32.43883	59.46797	32.09599	H_	1	0	0.00000
ATOM	696	N	PHE	A	132	26.35424	57.63689	30.10974	N_R	3	0	-0.47000
ATOM	697	HN	PHE	A	132	25.70525	56.97369	30.34417	H_A	1	0	0.31000
ATOM	698	CA	PHE	A	132	26.61286	57.78614	28.70741	C_3	4	0	0.16000
ATOM	699	HCA	PHE	A	132	27.40967	58.51550	28.54728	H_	1	0	0.00000
ATOM	700	C	PHE	A	132	25.39909	58.32298	28.03923	C_R	3	0	0.51000
ATOM	701	O	PHE	A	132	25.55921	59.18051	27.13629	O_2	1	2	-0.51000
ATOM	702	CB	PHE	A	132	27.05693	56.43401	28.07344	C_3	4	0	0.00000
ATOM	703	HC	PHE	A	132	26.92340	56.47684	26.99041	H_	1	0	0.00000
ATOM	704	CB	PHE	A	132	26.38991	55.65794	28.44834	H_	1	0	0.00000
ATOM	705	CG	PHE	A	132	28.48052	56.04873	28.28658	C_R	3	0	0.00000
ATOM	706	CD1	PHE	A	132	29.52297	56.90057	27.84741	C_R	3	0	0.00000
ATOM	707	HCD1	PHE	A	132	29.30468	57.79259	27.40514	H_	1	0	0.00000
ATOM	708	CD2	PHE	A	132	28.83168	54.80346	28.86236	C_R	3	0	0.00000
ATOM	709	HCD2	PHE	A	132	28.10983	54.15688	29.18607	H_	1	0	0.00000
ATOM	710	CE1	PHE	A	132	30.87222	56.53758	28.00221	C_R	3	0	0.00000
ATOM	711	HCE1	PHE	A	132	31.61602	57.16834	27.70194	H_	1	0	0.00000
ATOM	712	CE2	PHE	A	132	30.18249	54.42569	28.98167	C_R	3	0	0.00000
ATOM	713	HCE2	PHE	A	132	30.43197	53.51595	29.36712	H_	1	0	0.00000
ATOM	714	CZ	PHE	A	132	31.19990	55.29800	28.56761	C_R	3	0	0.00000
ATOM	715	HCZ	PHE	A	132	32.17699	55.02984	28.67379	H_	1	0	0.00000
ATOM	716	N	ASN	A	133	24.13978	57.94195	28.38750	N_R	3	0	-0.47000
ATOM	717	HN	ASN	A	133	24.06032	57.27425	29.07546	H_A	1	0	0.31000
ATOM	718	CA	ASN	A	133	22.94968	58.52455	27.80929	C_3	4	0	0.16000
ATOM	719	HCA	ASN	A	133	23.05513	58.40164	26.72975	H_	1	0	0.00000
ATOM	720	C	ASN	A	133	22.87873	59.99457	28.10194	C_R	3	0	0.51000
ATOM	721	O	ASN	A	133	22.47054	60.75600	27.18120	O_2	1	2	-0.51000
ATOM	722	CB	ASN	A	133	21.64498	57.74991	28.19129	C_3	4	0	0.00000
ATOM	723	HC	ASN	A	133	21.36758	58.00849	29.21539	H_	1	0	0.00000
ATOM	724	CB	ASN	A	133	21.86537	56.68056	28.16539	H_	1	0	0.00000
ATOM	725	CG	ASN	A	133	20.45559	57.98084	27.31984	C_R	3	0	0.55000
ATOM	726	OD1	ASN	A	133	19.65782	57.08817	26.95920	O_2	1	2	-0.55000
ATOM	727	ND2	ASN	A	133	20.16098	59.18827	26.84683	N_R	3	0	-0.60000
ATOM	728	HND2	ASN	A	133	19.35723	59.34898	26.33349	H_A	1	0	0.30000
ATOM	729	HND2	ASN	A	133	20.80946	59.86378	26.98423	H_A	1	0	0.30000
ATOM	730	N	PHE	A	134	23.23734	60.51086	29.31349	N_R	3	0	-0.47000
ATOM	731	HN	PHE	A	134	23.53542	59.93653	30.02644	H_A	1	0	0.31000
ATOM	732	CA	PHE	A	134	23.15432	61.90168	29.67016	C_3	4	0	0.16000
ATOM	733	HCA	PHE	A	134	22.93143	62.49962	28.78407	H_	1	0	0.00000

ATOM	734	C	PHE	A	134	24.40578	62.48047	30.25235	C_R	3	0	0.51000
ATOM	735	O	PHE	A	134	24.86659	63.51901	29.72684	O_2	1	2	-0.51000
ATOM	736	CB	PHE	A	134	21.96233	62.10129	30.64724	C_3	4	0	0.00000
ATOM	737	HCB	PHE	A	134	21.85419	63.17014	30.84374	H_	1	0	0.00000
ATOM	738	HCB	PHE	A	134	22.21385	61.61931	31.59519	H_	1	0	0.00000
ATOM	739	CG	PHE	A	134	20.64276	61.60951	30.15273	C_R	3	0	0.00000
ATOM	740	CD1	PHE	A	134	20.09419	62.09488	28.94245	C_R	3	0	0.00000
ATOM	741	HCD1	PHE	A	134	20.61361	62.76079	28.37673	H_	1	0	0.00000
ATOM	742	CD2	PHE	A	134	19.88880	60.66761	30.89080	C_R	3	0	0.00000
ATOM	743	HCD2	PHE	A	134	20.24266	60.28762	31.76515	H_	1	0	0.00000
ATOM	744	CE1	PHE	A	134	18.83274	61.66957	28.49033	C_R	3	0	0.00000
ATOM	745	HCE1	PHE	A	134	18.45763	62.02534	27.60941	H_	1	0	0.00000
ATOM	746	CE2	PHE	A	134	18.62447	60.24616	30.44788	C_R	3	0	0.00000
ATOM	747	HCE2	PHE	A	134	18.09489	59.57574	31.00363	H_	1	0	0.00000
ATOM	748	CZ	PHE	A	134	18.09260	60.75019	29.25005	C_R	3	0	0.00000
ATOM	749	HCZ	PHE	A	134	17.17144	60.44881	28.93158	H_	1	0	0.00000
ATOM	750	N	ASP	A	135	25.03756	61.99629	31.35154	N_R	3	0	-0.47000
ATOM	751	HN	ASP	A	135	24.76472	61.12178	31.64325	H_A	1	0	0.31000
ATOM	752	CA	ASP	A	135	26.01663	62.75438	32.11505	C_3	4	0	0.16000
ATOM	753	HCA	ASP	A	135	25.51481	63.68376	32.40874	H_	1	0	0.00000
ATOM	754	C	ASP	A	135	27.23691	63.13831	31.33895	C_R	3	0	0.51000
ATOM	755	O	ASP	A	135	27.64109	64.32541	31.37894	O_2	1	2	-0.51000
ATOM	756	CB	ASP	A	135	26.43288	62.07281	33.44606	C_3	4	0	-0.10000
ATOM	757	HCB	ASP	A	135	27.09941	62.74267	33.99734	H_	1	0	0.00000
ATOM	758	HCB	ASP	A	135	27.00939	61.18103	33.21417	H_	1	0	0.00000
ATOM	759	CG	ASP	A	135	25.32822	61.73005	34.36785	C_R	3	0	0.62000
ATOM	760	OD1	ASP	A	135	24.20513	62.28475	34.31968	O_2	1	2	-0.76000
ATOM	761	OD2	ASP	A	135	25.52732	60.90721	35.28669	O_2	1	2	-0.76000
ATOM	762	N	ALA	A	136	27.91755	62.24312	30.58332	N_R	3	0	-0.47000
ATOM	763	HN	ALA	A	136	27.68188	61.32158	30.65978	H_A	1	0	0.31000
ATOM	764	CA	ALA	A	136	28.99338	62.54653	29.67600	C_3	4	0	0.16000
ATOM	765	HCA	ALA	A	136	29.73495	63.13709	30.22573	H_	1	0	0.00000
ATOM	766	C	ALA	A	136	28.60202	63.33957	28.46902	C_R	3	0	0.51000
ATOM	767	O	ALA	A	136	29.50803	63.68503	27.67121	O_2	1	2	-0.51000
ATOM	768	CB	ALA	A	136	29.68694	61.22075	29.27494	C_3	4	0	0.00000
ATOM	769	HCB	ALA	A	136	28.99596	60.57696	28.72877	H_	1	0	0.00000
ATOM	770	HCB	ALA	A	136	30.55668	61.41971	28.64714	H_	1	0	0.00000
ATOM	771	HCB	ALA	A	136	30.03237	60.69305	30.16543	H_	1	0	0.00000
ATOM	772	N	LEU	A	137	27.33355	63.76599	28.24982	N_R	3	0	-0.47000
ATOM	773	HN	LEU	A	137	26.62948	63.50207	28.84476	H_A	1	0	0.31000
ATOM	774	CA	LEU	A	137	26.91259	64.75635	27.29851	C_3	4	0	0.16000
ATOM	775	HCA	LEU	A	137	27.71580	65.00688	26.60941	H_	1	0	0.00000
ATOM	776	C	LEU	A	137	26.57516	66.00953	28.04044	C_R	3	0	0.51000
ATOM	777	O	LEU	A	137	26.50173	66.00210	29.29364	O_2	1	2	-0.51000
ATOM	778	CB	LEU	A	137	25.68949	64.23253	26.48244	C_3	4	0	0.00000
ATOM	779	HCB	LEU	A	137	25.30769	65.04215	25.86027	H_	1	0	0.00000
ATOM	780	HCB	LEU	A	137	24.89582	63.98469	27.19053	H_	1	0	0.00000
ATOM	781	CG	LEU	A	137	25.93318	62.98717	25.56750	C_3	4	0	0.00000
ATOM	782	HCG	LEU	A	137	26.32153	62.17446	26.18971	H_	1	0	0.00000
ATOM	783	CD1	LEU	A	137	24.59982	62.49105	24.94034	C_3	4	0	0.00000
ATOM	784	HCD1	LEU	A	137	24.15905	63.26055	24.30393	H_	1	0	0.00000
ATOM	785	HCD1	LEU	A	137	24.76695	61.59367	24.34263	H_	1	0	0.00000
ATOM	786	HCD1	LEU	A	137	23.88807	62.24351	25.72238	H_	1	0	0.00000
ATOM	787	CD2	LEU	A	137	26.95870	63.25416	24.43420	C_3	4	0	0.00000
ATOM	788	HCD2	LEU	A	137	27.93719	63.47101	24.85492	H_	1	0	0.00000
ATOM	789	HCD2	LEU	A	137	27.06012	62.37722	23.79431	H_	1	0	0.00000
ATOM	790	HCD2	LEU	A	137	26.64425	64.09493	23.81573	H_	1	0	0.00000

ATOM	791	N	ASN	A	138	26.34150	67.18602	27.40023	N_R	3	0	-0.47000
ATOM	792	HN	ASN	A	138	26.36778	67.16994	26.43090	H_A	1	0	0.31000
ATOM	793	CA	ASN	A	138	26.04343	68.44511	28.05441	C_3	4	0	0.16000
ATOM	794	HCA	ASN	A	138	26.66852	68.51754	28.95077	H_	1	0	0.00000
ATOM	795	C	ASN	A	138	24.61863	68.51952	28.50588	C_R	3	0	0.51000
ATOM	796	O	ASN	A	138	23.92797	69.54140	28.30393	O_2	1	2	-0.51000
ATOM	797	CB	ASN	A	138	26.48060	69.61266	27.11621	C_3	4	0	0.00000
ATOM	798	HCB	ASN	A	138	25.83667	69.61057	26.23585	H_	1	0	0.00000
ATOM	799	HCB	ASN	A	138	27.50304	69.42310	26.77722	H_	1	0	0.00000
ATOM	800	CG	ASN	A	138	26.45687	70.97500	27.70189	C_R	3	0	0.55000
ATOM	801	OD1	ASN	A	138	26.83961	71.96118	27.04263	O_2	1	2	-0.55000
ATOM	802	ND2	ASN	A	138	26.07634	71.28513	28.94831	N_R	3	0	-0.60000
ATOM	803	HND2	ASN	A	138	26.04828	72.20847	29.23034	H_A	1	0	0.30000
ATOM	804	HND2	ASN	A	138	25.76735	70.58782	29.54672	H_A	1	0	0.30000
ATOM	805	N	ILE	A	139	24.08419	67.49212	29.19209	N_R	3	0	-0.47000
ATOM	806	HN	ILE	A	139	24.71553	66.79404	29.36563	H_A	1	0	0.31000
ATOM	807	CA	ILE	A	139	22.72463	67.35578	29.63320	C_3	4	0	0.16000
ATOM	808	HCA	ILE	A	139	22.12575	68.20114	29.29604	H_	1	0	0.00000
ATOM	809	C	ILE	A	139	22.75908	67.35158	31.13110	C_R	3	0	0.51000
ATOM	810	O	ILE	A	139	23.06374	66.26926	31.67417	O_2	1	2	-0.51000
ATOM	811	CB	ILE	A	139	22.05681	66.09588	28.96116	C_3	4	0	0.00000
ATOM	812	HCB	ILE	A	139	22.63728	65.21342	29.24803	H_	1	0	0.00000
ATOM	813	CG1	ILE	A	139	22.08527	66.19038	27.39372	C_3	4	0	0.00000
ATOM	814	HCG1	ILE	A	139	23.07747	66.50434	27.06004	H_	1	0	0.00000
ATOM	815	HCG1	ILE	A	139	21.37994	66.95602	27.06163	H_	1	0	0.00000
ATOM	816	CG2	ILE	A	139	20.60007	65.89285	29.48149	C_3	4	0	0.00000
ATOM	817	HCG2	ILE	A	139	19.98760	66.76157	29.25023	H_	1	0	0.00000
ATOM	818	HCG2	ILE	A	139	20.13575	65.02136	29.02910	H_	1	0	0.00000
ATOM	819	HCG2	ILE	A	139	20.59030	65.74095	30.55841	H_	1	0	0.00000
ATOM	820	CD1	ILE	A	139	21.78446	64.87794	26.62995	C_3	4	0	0.00000
ATOM	821	HCD1	ILE	A	139	20.76816	64.54336	26.80875	H_	1	0	0.00000
ATOM	822	HCD1	ILE	A	139	21.90040	65.03991	25.55939	H_	1	0	0.00000
ATOM	823	HCD1	ILE	A	139	22.47250	64.09410	26.93613	H_	1	0	0.00000
ATOM	824	N	PRO	A	140	22.55270	68.42281	31.96166	N_R	3	0	-0.29000
ATOM	825	CA	PRO	A	140	22.43294	68.30487	33.41172	C_3	4	0	0.11000
ATOM	826	HCA	PRO	A	140	23.32721	67.80258	33.79728	H_	1	0	0.00000
ATOM	827	C	PRO	A	140	21.26425	67.54805	33.88970	C_2	3	0	0.51000
ATOM	828	O	PRO	A	140	20.48868	67.10976	33.05459	O_2	1	2	-0.51000
ATOM	829	CB	PRO	A	140	22.44868	69.77262	33.91268	C_3	4	0	0.00000
ATOM	830	HCB	PRO	A	140	23.46270	70.05066	34.21630	H_	1	0	0.00000
ATOM	831	HCB	PRO	A	140	21.77597	69.95707	34.75502	H_	1	0	0.00000
ATOM	832	CG	PRO	A	140	22.04102	70.60731	32.69187	C_3	4	0	0.00000
ATOM	833	HCG	PRO	A	140	22.49870	71.60009	32.70272	H_	1	0	0.00000
ATOM	834	HCG	PRO	A	140	20.95700	70.71187	32.64647	H_	1	0	0.00000
ATOM	835	CD	PRO	A	140	22.50598	69.77401	31.49460	C_3	4	0	0.18000
ATOM	836	HCD	PRO	A	140	21.81004	69.92266	30.66745	H_	1	0	0.00000
ATOM	837	HCD	PRO	A	140	23.50826	70.08474	31.18521	H_	1	0	0.00000
ATOM	838	N	GLU	A	141	21.05867	67.31508	35.18147	N_R	3	0	-0.47000
ATOM	839	HN	GLU	A	141	21.71716	67.67345	35.79306	H_A	1	0	0.31000
ATOM	840	CA	GLU	A	141	19.94904	66.58957	35.77903	C_3	4	0	0.16000
ATOM	841	HCA	GLU	A	141	19.63607	65.81044	35.08158	H_	1	0	0.00000
ATOM	842	C	GLU	A	141	18.75931	67.46912	35.97919	C_R	3	0	0.51000
ATOM	843	O	GLU	A	141	17.95309	67.51111	35.02776	O_2	1	2	-0.51000
ATOM	844	CB	GLU	A	141	20.42202	65.78414	37.03403	C_3	4	0	0.00000
ATOM	845	HCB	GLU	A	141	21.09390	66.41948	37.61846	H_	1	0	0.00000
ATOM	846	HCB	GLU	A	141	21.02548	64.94173	36.68039	H_	1	0	0.00000
ATOM	847	CG	GLU	A	141	19.35568	65.21971	38.02556	C_3	4	0	-0.10000

ATOM	848	HCG	GLU	A	141	19.09631	66.01450	38.72622	H_	1	0	0.00000
ATOM	849	HCG	GLU	A	141	19.81671	64.42975	38.62416	H_	1	0	0.00000
ATOM	850	CD	GLU	A	141	18.10835	64.66765	37.45517	C_R	3	0	0.62000
ATOM	851	OE1	GLU	A	141	18.07340	63.52833	36.93638	O_2	1	2	-0.76000
ATOM	852	OE2	GLU	A	141	17.03821	65.30347	37.57546	O_2	1	2	-0.76000
ATOM	853	N	HSD	A	142	18.52286	68.21145	37.09431	N_R	3	0	-0.47000
ATOM	854	HN	HSD	A	142	19.21306	68.19191	37.77304	H_A	1	0	0.31000
ATOM	855	CA	HSD	A	142	17.29203	68.91147	37.44851	C_3	4	0	0.16000
ATOM	856	HCA	HSD	A	142	16.48326	68.17508	37.45772	H_	1	0	0.00000
ATOM	857	C	HSD	A	142	16.84273	70.04693	36.57132	C_R	3	0	0.51000
ATOM	858	O	HSD	A	142	15.97801	70.86423	36.96850	O_2	1	2	-0.51000
ATOM	859	CB	HSD	A	142	17.45567	69.46039	38.90218	C_3	4	0	0.10000
ATOM	860	HCB	HSD	A	142	16.53006	69.93990	39.23171	H_	1	0	0.00000
ATOM	861	HCB	HSD	A	142	18.23897	70.22396	38.90437	H_	1	0	0.00000
ATOM	862	CG	HSD	A	142	17.77804	68.45392	39.92961	C_R	3	0	0.22000
ATOM	863	ND1	HSD	A	142	18.88832	68.45243	40.69109	N_R	2	1	-0.70000
ATOM	864	CD2	HSD	A	142	16.98683	67.37788	40.31756	C_R	3	0	0.04000
ATOM	865	HCD2	HSD	A	142	16.07937	67.11326	39.93170	H_	1	0	0.00000
ATOM	866	CE1	HSD	A	142	18.78536	67.40532	41.52614	C_R	3	0	0.38000
ATOM	867	HCE1	HSD	A	142	19.47747	67.14943	42.23093	H_	1	0	0.00000
ATOM	868	NE2	HSD	A	142	17.63843	66.75266	41.30181	N_R	3	0	-0.36000
ATOM	869	HNE2	HSD	A	142	17.33493	65.96109	41.76676	H_A	1	0	0.32000
ATOM	870	N	HSD	A	143	17.36231	70.21331	35.34222	N_R	3	0	-0.47000
ATOM	871	HN	HSD	A	143	17.80511	69.42482	35.04508	H_A	1	0	0.31000
ATOM	872	CA	HSD	A	143	17.22611	71.31546	34.43369	C_3	4	0	0.16000
ATOM	873	HCA	HSD	A	143	16.57717	72.06896	34.88602	H_	1	0	0.00000
ATOM	874	C	HSD	A	143	16.59778	70.86497	33.14959	C_R	3	0	0.51000
ATOM	875	O	HSD	A	143	16.93602	69.73066	32.71571	O_2	1	2	-0.51000
ATOM	876	CB	HSD	A	143	18.62834	71.95087	34.19327	C_3	4	0	0.10000
ATOM	877	HCB	HSD	A	143	18.66951	72.41712	33.20476	H_	1	0	0.00000
ATOM	878	HCB	HSD	A	143	19.38958	71.17231	34.21745	H_	1	0	0.00000
ATOM	879	CG	HSD	A	143	18.99494	72.97753	35.19194	C_R	3	0	0.22000
ATOM	880	ND1	HSD	A	143	19.25248	74.27029	34.91798	N_R	2	1	-0.70000
ATOM	881	CD2	HSD	A	143	19.14782	72.80255	36.56437	C_R	3	0	0.04000
ATOM	882	HCD2	HSD	A	143	19.03193	71.93550	37.08822	H_	1	0	0.00000
ATOM	883	CE1	HSD	A	143	19.54244	74.87649	36.08003	C_R	3	0	0.38000
ATOM	884	HCE1	HSD	A	143	19.77841	75.86402	36.18430	H_	1	0	0.00000
ATOM	885	NE2	HSD	A	143	19.47800	73.99024	37.08033	N_R	3	0	-0.36000
ATOM	886	HNE2	HSD	A	143	19.64033	74.17889	38.01528	H_A	1	0	0.32000
ATOM	887	N	PRO	A	144	15.74744	71.65948	32.41354	N_R	3	0	-0.29000
ATOM	888	CA	PRO	A	144	14.85283	71.17653	31.38079	C_3	4	0	0.11000
ATOM	889	HCA	PRO	A	144	14.14230	70.52142	31.88636	H_	1	0	0.00000
ATOM	890	C	PRO	A	144	15.41783	70.41956	30.26921	C_2	3	0	0.51000
ATOM	891	O	PRO	A	144	14.65472	69.82453	29.52252	O_2	1	2	-0.51000
ATOM	892	CB	PRO	A	144	14.06771	72.42355	30.88984	C_3	4	0	0.00000
ATOM	893	HCB	PRO	A	144	13.06972	72.44453	31.34034	H_	1	0	0.00000
ATOM	894	HCB	PRO	A	144	13.95338	72.47867	29.80232	H_	1	0	0.00000
ATOM	895	CG	PRO	A	144	14.88525	73.61176	31.40487	C_3	4	0	0.00000
ATOM	896	HCG	PRO	A	144	14.25679	74.48021	31.61928	H_	1	0	0.00000
ATOM	897	HCG	PRO	A	144	15.64989	73.88817	30.67230	H_	1	0	0.00000
ATOM	898	CD	PRO	A	144	15.54378	73.05481	32.67231	C_3	4	0	0.18000
ATOM	899	HCD	PRO	A	144	16.47862	73.58877	32.85972	H_	1	0	0.00000
ATOM	900	HCD	PRO	A	144	14.87440	73.18053	33.52875	H_	1	0	0.00000
ATOM	901	N	ALA	A	145	16.72088	70.34480	30.07673	N_R	3	0	-0.47000
ATOM	902	HN	ALA	A	145	17.27024	70.90575	30.63966	H_A	1	0	0.31000
ATOM	903	CA	ALA	A	145	17.39726	69.44449	29.19060	C_3	4	0	0.16000
ATOM	904	HCA	ALA	A	145	17.10523	69.68730	28.16380	H_	1	0	0.00000

ATOM	905	C	ALA	A	145	17.08282	68.01340	29.48007	C_R	3	0	0.51000
ATOM	906	O	ALA	A	145	16.67225	67.28452	28.54941	O_2	1	2	-0.51000
ATOM	907	CB	ALA	A	145	18.91794	69.70352	29.30620	C_3	4	0	0.00000
ATOM	908	HCB	ALA	A	145	19.26219	69.53052	30.32774	H_	1	0	0.00000
ATOM	909	HCB	ALA	A	145	19.46560	69.04419	28.63427	H_	1	0	0.00000
ATOM	910	HCB	ALA	A	145	19.14628	70.73491	29.03013	H_	1	0	0.00000
ATOM	911	N	ARG	A	146	17.15619	67.49935	30.73300	N_R	3	0	-0.47000
ATOM	912	HN	ARG	A	146	17.23420	68.14411	31.44614	H_A	1	0	0.31000
ATOM	913	CA	ARG	A	146	16.94376	66.10064	31.06387	C_3	4	0	0.16000
ATOM	914	HCA	ARG	A	146	17.60263	65.49230	30.43703	H_	1	0	0.00000
ATOM	915	C	ARG	A	146	15.52247	65.76207	30.77665	C_R	3	0	0.51000
ATOM	916	O	ARG	A	146	15.20853	64.81955	30.00629	O_2	1	2	-0.51000
ATOM	917	CB	ARG	A	146	17.32463	65.84922	32.55275	C_3	4	0	0.00000
ATOM	918	HCB	ARG	A	146	16.55935	66.31160	33.18107	H_	1	0	0.00000
ATOM	919	HCB	ARG	A	146	18.24666	66.37817	32.74751	H_	1	0	0.00000
ATOM	920	CG	ARG	A	146	17.51880	64.37968	33.04466	C_3	4	0	0.00000
ATOM	921	HCG	ARG	A	146	16.66251	63.78971	32.70634	H_	1	0	0.00000
ATOM	922	HCG	ARG	A	146	17.49058	64.38479	34.13749	H_	1	0	0.00000
ATOM	923	CD	ARG	A	146	18.82147	63.64330	32.62450	C_3	4	0	0.38000
ATOM	924	HCD	ARG	A	146	18.84303	63.59706	31.53457	H_	1	0	0.00000
ATOM	925	HCD	ARG	A	146	18.77121	62.61439	32.99232	H_	1	0	0.00000
ATOM	926	NE	ARG	A	146	20.04804	64.26015	33.03866	N_R	3	0	-0.70000
ATOM	927	HNE	ARG	A	146	20.14326	65.20255	32.93320	H_A	1	0	0.44000
ATOM	928	CZ	ARG	A	146	21.13045	63.65828	33.54522	C_R	3	0	0.64000
ATOM	929	NH1	ARG	A	146	21.31557	62.46882	34.08677	N_R	3	0	-0.80000
ATOM	930	HNH1	ARG	A	146	22.23556	62.25281	34.26746	H_A	1	0	0.46000
ATOM	931	HNH1	ARG	A	146	20.64752	61.82434	34.32243	H_A	1	0	0.46000
ATOM	932	NH2	ARG	A	146	22.31027	64.23812	33.46810	N_R	3	0	-0.80000
ATOM	933	HNH2	ARG	A	146	23.04627	63.72639	33.80904	H_A	1	0	0.46000
ATOM	934	HNH2	ARG	A	146	22.46619	65.02345	32.96389	H_A	1	0	0.46000
ATOM	935	N	ASP	A	147	14.58068	66.59291	31.27050	N_R	3	0	-0.47000
ATOM	936	HN	ASP	A	147	14.83271	67.25134	31.92175	H_A	1	0	0.31000
ATOM	937	CA	ASP	A	147	13.18198	66.60638	31.01121	C_3	4	0	0.16000
ATOM	938	HCA	ASP	A	147	12.78989	65.66383	31.40593	H_	1	0	0.00000
ATOM	939	C	ASP	A	147	12.81075	66.68395	29.56293	C_R	3	0	0.51000
ATOM	940	O	ASP	A	147	11.59154	66.56382	29.29182	O_2	1	2	-0.51000
ATOM	941	CB	ASP	A	147	12.52817	67.77583	31.82321	C_3	4	0	-0.10000
ATOM	942	HCB	ASP	A	147	11.45333	67.58353	31.88729	H_	1	0	0.00000
ATOM	943	HCB	ASP	A	147	12.64735	68.71138	31.27363	H_	1	0	0.00000
ATOM	944	CG	ASP	A	147	13.05174	68.00109	33.19728	C_R	3	0	0.62000
ATOM	945	OD1	ASP	A	147	14.21803	68.42791	33.38556	O_2	1	2	-0.76000
ATOM	946	OD2	ASP	A	147	12.33076	67.82241	34.20352	O_2	1	2	-0.76000
ATOM	947	N	MET	A	148	13.69758	66.81898	28.53212	N_R	3	0	-0.47000
ATOM	948	HN	MET	A	148	14.63120	66.97842	28.70517	H_A	1	0	0.31000
ATOM	949	CA	MET	A	148	13.33503	66.60417	27.15147	C_3	4	0	0.16000
ATOM	950	HCA	MET	A	148	12.42635	67.17621	26.93514	H_	1	0	0.00000
ATOM	951	C	MET	A	148	13.06103	65.16234	26.86945	C_R	3	0	0.51000
ATOM	952	O	MET	A	148	12.45927	64.89459	25.80126	O_2	1	2	-0.51000
ATOM	953	CB	MET	A	148	14.44268	67.09410	26.16720	C_3	4	0	0.00000
ATOM	954	HCB	MET	A	148	14.19211	66.78334	25.14782	H_	1	0	0.00000
ATOM	955	HCB	MET	A	148	15.38119	66.60979	26.42957	H_	1	0	0.00000
ATOM	956	CG	MET	A	148	14.66003	68.62408	26.12558	C_3	4	0	0.04000
ATOM	957	HCG	MET	A	148	14.87078	68.99680	27.12440	H_	1	0	0.00000
ATOM	958	HCG	MET	A	148	13.75797	69.11136	25.74875	H_	1	0	0.00000
ATOM	959	SD	MET	A	148	16.05980	69.02352	25.04476	S_3	2	0	-0.09000
ATOM	960	CE	MET	A	148	15.96981	70.82125	25.17763	C_3	4	0	0.05000
ATOM	961	HCE	MET	A	148	16.10580	71.13241	26.21365	H_	1	0	0.00000

ATOM	962	HCE	MET	A	148	16.76283	71.25416	24.56923	H_	1	0	0.00000
ATOM	963	HCE	MET	A	148	15.00696	71.17802	24.81051	H_	1	0	0.00000
ATOM	964	N	TRP	A	149	13.52638	64.16059	27.66478	N_R	3	0	-0.47000
ATOM	965	HN	TRP	A	149	14.01122	64.40348	28.46054	H_A	1	0	0.31000
ATOM	966	CA	TRP	A	149	13.47212	62.75633	27.33958	C_3	4	0	0.16000
ATOM	967	HCA	TRP	A	149	12.89136	62.58843	26.42767	H_	1	0	0.00000
ATOM	968	C	TRP	A	149	12.85058	61.90391	28.40345	C_R	3	0	0.51000
ATOM	969	O	TRP	A	149	13.40872	61.79513	29.51923	O_2	1	2	-0.51000
ATOM	970	CB	TRP	A	149	14.93488	62.32343	27.03491	C_3	4	0	0.00000
ATOM	971	HCB	TRP	A	149	14.93317	61.25455	26.86025	H_	1	0	0.00000
ATOM	972	HCB	TRP	A	149	15.56426	62.51581	27.90805	H_	1	0	0.00000
ATOM	973	CG	TRP	A	149	15.52697	62.96701	25.83272	C_R	3	0	-0.03000
ATOM	974	CD1	TRP	A	149	15.15457	62.71788	24.50887	C_R	3	0	0.15000
ATOM	975	HCD1	TRP	A	149	14.43535	62.05980	24.22122	H_	1	0	0.00000
ATOM	976	CD2	TRP	A	149	16.53281	63.93347	25.75525	C_R	3	0	-0.02000
ATOM	977	NE1	TRP	A	149	15.87956	63.48318	23.67422	N_R	3	0	-0.61000
ATOM	978	HNE1	TRP	A	149	15.81294	63.53667	22.71848	H_A	1	0	0.38000
ATOM	979	CE2	TRP	A	149	16.71940	64.22413	24.40267	C_R	3	0	0.13000
ATOM	980	CE3	TRP	A	149	17.28466	64.60749	26.73683	C_R	3	0	0.00000
ATOM	981	HCE3	TRP	A	149	17.15484	64.40949	27.73025	H_	1	0	0.00000
ATOM	982	CZ2	TRP	A	149	17.65398	65.17878	23.97080	C_R	3	0	0.00000
ATOM	983	HCZ2	TRP	A	149	17.78095	65.37329	22.97580	H_	1	0	0.00000
ATOM	984	CZ3	TRP	A	149	18.21138	65.58806	26.31874	C_R	3	0	0.00000
ATOM	985	HCZ3	TRP	A	149	18.74830	66.10651	27.01446	H_	1	0	0.00000
ATOM	986	CH2	TRP	A	149	18.40227	65.86636	24.94670	C_R	3	0	0.00000
ATOM	987	HCH2	TRP	A	149	19.08251	66.57219	24.65863	H_	1	0	0.00000
ATOM	988	N	ASP	A	150	11.69278	61.23243	28.17862	N_R	3	0	-0.47000
ATOM	989	HN	ASP	A	150	11.21874	61.40780	27.36247	H_A	1	0	0.31000
ATOM	990	CA	ASP	A	150	10.94292	60.37420	29.06187	C_3	4	0	0.16000
ATOM	991	HCA	ASP	A	150	10.90022	60.89125	30.02662	H_	1	0	0.00000
ATOM	992	C	ASP	A	150	11.58294	59.02743	29.27027	C_R	3	0	0.51000
ATOM	993	O	ASP	A	150	11.50779	58.12383	28.40132	O_2	1	2	-0.51000
ATOM	994	CB	ASP	A	150	9.45692	60.25002	28.55992	C_3	4	0	-0.10000
ATOM	995	HCB	ASP	A	150	8.80936	60.13681	29.43409	H_	1	0	0.00000
ATOM	996	HCB	ASP	A	150	9.32832	59.34974	27.96145	H_	1	0	0.00000
ATOM	997	CG	ASP	A	150	8.93749	61.35777	27.72029	C_R	3	0	0.62000
ATOM	998	OD1	ASP	A	150	9.41158	61.56178	26.57604	O_2	1	2	-0.76000
ATOM	999	OD2	ASP	A	150	8.02290	62.10330	28.13350	O_2	1	2	-0.76000
ATOM	1000	N	THR	A	151	12.27576	58.76006	30.40214	N_R	3	0	-0.47000
ATOM	1001	HN	THR	A	151	12.21802	59.43301	31.10065	H_A	1	0	0.31000
ATOM	1002	CA	THR	A	151	13.17216	57.64785	30.63845	C_3	4	0	0.16000
ATOM	1003	HCA	THR	A	151	13.73633	57.46335	29.71820	H_	1	0	0.00000
ATOM	1004	C	THR	A	151	12.55689	56.34977	31.08316	C_R	3	0	0.51000
ATOM	1005	O	THR	A	151	11.85244	56.30595	32.12491	O_2	1	2	-0.51000
ATOM	1006	CB	THR	A	151	14.20652	58.09389	31.72486	C_3	4	0	0.23000
ATOM	1007	HCB	THR	A	151	14.83867	57.24087	31.99777	H_	1	0	0.00000
ATOM	1008	OG1	THR	A	151	13.49998	58.50202	32.89657	O_3	2	2	-0.66000
ATOM	1009	HOG1	THR	A	151	12.84092	57.79358	32.92276	H_A	1	0	0.43000
ATOM	1010	CG2	THR	A	151	15.14608	59.23702	31.28410	C_3	4	0	0.00000
ATOM	1011	HCG2	THR	A	151	14.57850	60.13801	31.06749	H_	1	0	0.00000
ATOM	1012	HCG2	THR	A	151	15.85379	59.46383	32.08148	H_	1	0	0.00000
ATOM	1013	HCG2	THR	A	151	15.69912	58.94071	30.39346	H_	1	0	0.00000
ATOM	1014	N	PHE	A	152	12.88416	55.19148	30.45045	N_R	3	0	-0.47000
ATOM	1015	HN	PHE	A	152	13.39013	55.27954	29.62700	H_A	1	0	0.31000
ATOM	1016	CA	PHE	A	152	12.64370	53.84750	30.92668	C_3	4	0	0.16000
ATOM	1017	HCA	PHE	A	152	11.72661	53.82268	31.52262	H_	1	0	0.00000
ATOM	1018	C	PHE	A	152	13.77488	53.38257	31.79799	C_R	3	0	0.51000

ATOM	1019	O	PHE	A	152	14.77022	52.81435	31.27837	O_2	1	2	-0.51000
ATOM	1020	CB	PHE	A	152	12.46516	52.85878	29.72925	C_3	4	0	0.00000
ATOM	1021	HC	PHE	A	152	12.66660	51.83841	30.07003	H_	1	0	0.00000
ATOM	1022	HC	PHE	A	152	13.23458	53.09163	28.98911	H_	1	0	0.00000
ATOM	1023	CG	PHE	A	152	11.13084	52.78726	29.08085	C_R	3	0	0.00000
ATOM	1024	CD1	PHE	A	152	10.01072	52.29929	29.79525	C_R	3	0	0.00000
ATOM	1025	HCD1	PHE	A	152	10.08846	52.07468	30.78976	H_	1	0	0.00000
ATOM	1026	CD2	PHE	A	152	10.97944	53.08679	27.70760	C_R	3	0	0.00000
ATOM	1027	HCD2	PHE	A	152	11.76185	53.46813	27.17396	H_	1	0	0.00000
ATOM	1028	CE1	PHE	A	152	8.78315	52.08117	29.14274	C_R	3	0	0.00000
ATOM	1029	HCE1	PHE	A	152	7.98236	51.72259	29.66722	H_	1	0	0.00000
ATOM	1030	CE2	PHE	A	152	9.76390	52.83107	27.04827	C_R	3	0	0.00000
ATOM	1031	HCE2	PHE	A	152	9.68562	52.99220	26.04343	H_	1	0	0.00000
ATOM	1032	CZ	PHE	A	152	8.66080	52.34126	27.76682	C_R	3	0	0.00000
ATOM	1033	HCZ	PHE	A	152	7.77313	52.17105	27.28871	H_	1	0	0.00000
ATOM	1034	N	TRP	A	153	13.70330	53.54673	33.14335	N_R	3	0	-0.47000
ATOM	1035	HN	TRP	A	153	12.91840	54.01299	33.46715	H_A	1	0	0.31000
ATOM	1036	CA	TRP	A	153	14.65233	53.08575	34.13375	C_3	4	0	0.16000
ATOM	1037	HCA	TRP	A	153	15.65822	53.33141	33.78507	H_	1	0	0.00000
ATOM	1038	C	TRP	A	153	14.57935	51.61894	34.39924	C_R	3	0	0.51000
ATOM	1039	O	TRP	A	153	13.45277	51.09484	34.57123	O_2	1	2	-0.51000
ATOM	1040	CB	TRP	A	153	14.41603	53.80900	35.49623	C_3	4	0	0.00000
ATOM	1041	HC	TRP	A	153	15.13987	53.45307	36.23555	H_	1	0	0.00000
ATOM	1042	HC	TRP	A	153	13.41914	53.55268	35.86772	H_	1	0	0.00000
ATOM	1043	CG	TRP	A	153	14.53636	55.27991	35.43643	C_R	3	0	-0.03000
ATOM	1044	CD1	TRP	A	153	13.50884	56.20507	35.63670	C_R	3	0	0.15000
ATOM	1045	HCD1	TRP	A	153	12.53689	55.98011	35.85467	H_	1	0	0.00000
ATOM	1046	CD2	TRP	A	153	15.67674	56.03357	35.16662	C_R	3	0	-0.02000
ATOM	1047	NE1	TRP	A	153	13.99209	57.44761	35.47918	N_R	3	0	-0.61000
ATOM	1048	HNE1	TRP	A	153	13.47907	58.27059	35.53797	H_A	1	0	0.38000
ATOM	1049	CE2	TRP	A	153	15.29377	57.37376	35.17040	C_R	3	0	0.13000
ATOM	1050	CE3	TRP	A	153	17.00922	55.66575	34.90830	C_R	3	0	0.00000
ATOM	1051	HCE3	TRP	A	153	17.30585	54.69014	34.95496	H_	1	0	0.00000
ATOM	1052	CZ2	TRP	A	153	16.20375	58.39427	34.85166	C_R	3	0	0.00000
ATOM	1053	HCZ2	TRP	A	153	15.91097	59.37322	34.84157	H_	1	0	0.00000
ATOM	1054	CZ3	TRP	A	153	17.93037	56.67699	34.56720	C_R	3	0	0.00000
ATOM	1055	HCZ3	TRP	A	153	18.89469	56.42679	34.34501	H_	1	0	0.00000
ATOM	1056	CH2	TRP	A	153	17.52277	58.02794	34.51614	C_R	3	0	0.00000
ATOM	1057	HCH2	TRP	A	153	18.18395	58.74418	34.22538	H_	1	0	0.00000
ATOM	1058	N	LEU	A	154	15.70481	50.87397	34.53744	N_R	3	0	-0.47000
ATOM	1059	HN	LEU	A	154	16.54519	51.32711	34.44466	H_A	1	0	0.31000
ATOM	1060	CA	LEU	A	154	15.78407	49.45869	34.80939	C_3	4	0	0.16000
ATOM	1061	HCA	LEU	A	154	14.78713	49.01001	34.81981	H_	1	0	0.00000
ATOM	1062	C	LEU	A	154	16.38561	49.20285	36.15049	C_R	3	0	0.51000
ATOM	1063	O	LEU	A	154	17.51744	49.66737	36.41681	O_2	1	2	-0.51000
ATOM	1064	CB	LEU	A	154	16.60819	48.76975	33.66844	C_3	4	0	0.00000
ATOM	1065	HC	LEU	A	154	17.17975	47.93378	34.08804	H_	1	0	0.00000
ATOM	1066	HC	LEU	A	154	17.34603	49.47522	33.26973	H_	1	0	0.00000
ATOM	1067	CG	LEU	A	154	15.76273	48.18530	32.49012	C_3	4	0	0.00000
ATOM	1068	HCG	LEU	A	154	15.15805	47.36571	32.89156	H_	1	0	0.00000
ATOM	1069	CD1	LEU	A	154	14.78249	49.20499	31.84921	C_3	4	0	0.00000
ATOM	1070	HCD1	LEU	A	154	15.32027	50.08624	31.49796	H_	1	0	0.00000
ATOM	1071	HCD1	LEU	A	154	14.25413	48.74835	31.01310	H_	1	0	0.00000
ATOM	1072	HCD1	LEU	A	154	14.02359	49.51524	32.56216	H_	1	0	0.00000
ATOM	1073	CD2	LEU	A	154	16.68916	47.57955	31.40053	C_3	4	0	0.00000
ATOM	1074	HCD2	LEU	A	154	17.32325	46.80052	31.82753	H_	1	0	0.00000
ATOM	1075	HCD2	LEU	A	154	16.09819	47.13096	30.60035	H_	1	0	0.00000

ATOM	1076	HCD2	LEU	A	154	17.32615	48.35391	30.97011	H_	1	0	0.00000
ATOM	1077	N	THR	A	155	15.73822	48.43273	37.06220	N_R	3	0	-0.47000
ATOM	1078	HN	THR	A	155	14.85564	48.11653	36.81360	H_A	1	0	0.31000
ATOM	1079	CA	THR	A	155	16.24039	48.01642	38.34993	C_3	4	0	0.16000
ATOM	1080	HCA	THR	A	155	17.17007	48.54432	38.58441	H_	1	0	0.00000
ATOM	1081	C	THR	A	155	16.54851	46.55189	38.30990	C_R	3	0	0.51000
ATOM	1082	O	THR	A	155	15.62179	45.70837	38.18815	O_2	1	2	-0.51000
ATOM	1083	CB	THR	A	155	15.23550	48.36504	39.50021	C_3	4	0	0.23000
ATOM	1084	HC	THR	A	155	15.64401	47.98243	40.44176	H_	1	0	0.00000
ATOM	1085	OG1	THR	A	155	13.97531	47.72019	39.30120	O_3	2	2	-0.66000
ATOM	1086	HOG1	THR	A	155	14.29544	46.87279	38.96476	H_A	1	0	0.43000
ATOM	1087	CG2	THR	A	155	14.99583	49.88280	39.67634	C_3	4	0	0.00000
ATOM	1088	HCG2	THR	A	155	14.57832	50.31298	38.76505	H_	1	0	0.00000
ATOM	1089	HCG2	THR	A	155	14.29569	50.05569	40.49557	H_	1	0	0.00000
ATOM	1090	HCG2	THR	A	155	15.93414	50.38748	39.91048	H_	1	0	0.00000
ATOM	1091	N	GLY	A	156	17.82822	46.11849	38.39624	N_R	3	0	-0.47000
ATOM	1092	HN	GLY	A	156	18.52761	46.79094	38.44190	H_A	1	0	0.31000
ATOM	1093	CA	GLY	A	156	18.23007	44.74343	38.38842	C_3	4	0	0.16000
ATOM	1094	HCA	GLY	A	156	17.96817	44.29350	37.42736	H_	1	0	0.00000
ATOM	1095	HCA	GLY	A	156	17.68577	44.20839	39.17228	H_	1	0	0.00000
ATOM	1096	C	GLY	A	156	19.68810	44.58987	38.59778	C_R	3	0	0.51000
ATOM	1097	O	GLY	A	156	20.46799	45.07794	37.74867	O_2	1	2	-0.51000
ATOM	1098	N	GLU	A	157	20.15826	43.92348	39.67896	N_R	3	0	-0.47000
ATOM	1099	HN	GLU	A	157	19.49961	43.53460	40.27106	H_A	1	0	0.31000
ATOM	1100	CA	GLU	A	157	21.54465	43.71637	40.02119	C_3	4	0	0.16000
ATOM	1101	HCA	GLU	A	157	22.12932	44.55696	39.63676	H_	1	0	0.00000
ATOM	1102	C	GLU	A	157	22.09800	42.46842	39.41575	C_R	3	0	0.51000
ATOM	1103	O	GLU	A	157	21.34886	41.69992	38.76138	O_2	1	2	-0.51000
ATOM	1104	CB	GLU	A	157	21.62849	43.73220	41.58304	C_3	4	0	0.00000
ATOM	1105	HC	GLU	A	157	21.04460	42.89481	41.97658	H_	1	0	0.00000
ATOM	1106	HC	GLU	A	157	21.15367	44.65050	41.94281	H_	1	0	0.00000
ATOM	1107	CG	GLU	A	157	23.04321	43.65963	42.22339	C_3	4	0	-0.10000
ATOM	1108	HCG	GLU	A	157	23.44101	42.64846	42.11274	H_	1	0	0.00000
ATOM	1109	HCG	GLU	A	157	22.96544	43.84815	43.29717	H_	1	0	0.00000
ATOM	1110	CD	GLU	A	157	23.98565	44.63305	41.64882	C_R	3	0	0.62000
ATOM	1111	OE1	GLU	A	157	23.83620	45.85261	41.87438	O_2	1	2	-0.76000
ATOM	1112	OE2	GLU	A	157	24.89683	44.23165	40.88886	O_2	1	2	-0.76000
ATOM	1113	N	GLY	A	158	23.41970	42.17552	39.51394	N_R	3	0	-0.47000
ATOM	1114	HN	GLY	A	158	23.95912	42.83941	39.95436	H_A	1	0	0.31000
ATOM	1115	CA	GLY	A	158	24.08018	41.00887	38.98560	C_3	4	0	0.16000
ATOM	1116	HCA	GLY	A	158	23.48892	40.11381	39.18981	H_	1	0	0.00000
ATOM	1117	HCA	GLY	A	158	25.02777	40.90534	39.51864	H_	1	0	0.00000
ATOM	1118	C	GLY	A	158	24.35296	41.09158	37.52907	C_R	3	0	0.51000
ATOM	1119	O	GLY	A	158	25.39109	40.59306	37.02812	O_2	1	2	-0.51000
ATOM	1120	N	PHE	A	159	23.44491	41.73572	36.76792	N_R	3	0	-0.47000
ATOM	1121	HN	PHE	A	159	22.62610	41.89114	37.23949	H_A	1	0	0.31000
ATOM	1122	CA	PHE	A	159	23.63423	42.28199	35.45773	C_3	4	0	0.16000
ATOM	1123	HCA	PHE	A	159	23.86265	41.45697	34.77446	H_	1	0	0.00000
ATOM	1124	C	PHE	A	159	24.75555	43.26488	35.47612	C_R	3	0	0.51000
ATOM	1125	O	PHE	A	159	24.73385	44.20842	36.29843	O_2	1	2	-0.51000
ATOM	1126	CB	PHE	A	159	22.30709	42.95304	34.98894	C_3	4	0	0.00000
ATOM	1127	HC	PHE	A	159	22.03723	43.76174	35.67497	H_	1	0	0.00000
ATOM	1128	HC	PHE	A	159	21.50172	42.21562	35.05938	H_	1	0	0.00000
ATOM	1129	CG	PHE	A	159	22.36903	43.48717	33.59777	C_R	3	0	0.00000
ATOM	1130	CD1	PHE	A	159	21.91081	42.71332	32.50507	C_R	3	0	0.00000
ATOM	1131	HCD1	PHE	A	159	21.52062	41.78063	32.65969	H_	1	0	0.00000
ATOM	1132	CD2	PHE	A	159	22.89752	44.77576	33.33795	C_R	3	0	0.00000

ATOM	1133	HCD2	PHE	A	159	23.22907	45.36417	34.10568	H_	1	0	0.00000
ATOM	1134	CE1	PHE	A	159	21.98783	43.20928	31.18995	C_R	3	0	0.00000
ATOM	1135	HCE1	PHE	A	159	21.65190	42.64118	30.40918	H_	1	0	0.00000
ATOM	1136	CE2	PHE	A	159	22.98183	45.26801	32.02265	C_R	3	0	0.00000
ATOM	1137	HCE2	PHE	A	159	23.36978	46.19655	31.84730	H_	1	0	0.00000
ATOM	1138	CZ	PHE	A	159	22.52878	44.48390	30.94822	C_R	3	0	0.00000
ATOM	1139	HCZ	PHE	A	159	22.59093	44.84060	29.99238	H_	1	0	0.00000
ATOM	1140	N	ARG	A	160	25.77201	43.14078	34.59742	N_R	3	0	-0.47000
ATOM	1141	HN	ARG	A	160	25.72745	42.39971	33.97650	H_A	1	0	0.31000
ATOM	1142	CA	ARG	A	160	26.89445	44.02656	34.45069	C_3	4	0	0.16000
ATOM	1143	HCA	ARG	A	160	26.91486	44.78872	35.23781	H_	1	0	0.00000
ATOM	1144	C	ARG	A	160	26.79172	44.70588	33.13972	C_R	3	0	0.51000
ATOM	1145	O	ARG	A	160	26.57659	44.01669	32.11201	O_2	1	2	-0.51000
ATOM	1146	CB	ARG	A	160	28.21406	43.21188	34.53195	C_3	4	0	0.00000
ATOM	1147	HCB	ARG	A	160	29.02996	43.78685	34.09198	H_	1	0	0.00000
ATOM	1148	HCB	ARG	A	160	28.10820	42.32146	33.90581	H_	1	0	0.00000
ATOM	1149	CG	ARG	A	160	28.61574	42.83282	35.99233	C_3	4	0	0.00000
ATOM	1150	HCG	ARG	A	160	27.76591	42.94895	36.67196	H_	1	0	0.00000
ATOM	1151	HCG	ARG	A	160	29.38972	43.51776	36.34281	H_	1	0	0.00000
ATOM	1152	CD	ARG	A	160	29.13869	41.38603	36.11948	C_3	4	0	0.38000
ATOM	1153	HCD	ARG	A	160	29.49761	41.21454	37.13666	H_	1	0	0.00000
ATOM	1154	HCD	ARG	A	160	29.97215	41.22408	35.43078	H_	1	0	0.00000
ATOM	1155	NE	ARG	A	160	28.03823	40.51228	35.88077	N_R	3	0	-0.70000
ATOM	1156	HNE	ARG	A	160	27.24801	40.62769	36.40580	H_A	1	0	0.44000
ATOM	1157	CZ	ARG	A	160	27.90591	39.59661	34.92875	C_R	3	0	0.64000
ATOM	1158	NH1	ARG	A	160	28.81641	39.26914	34.02411	N_R	3	0	-0.80000
ATOM	1159	HNH1	ARG	A	160	28.62489	38.60376	33.35381	H_A	1	0	0.46000
ATOM	1160	HNH1	ARG	A	160	29.67082	39.72914	34.01981	H_A	1	0	0.46000
ATOM	1161	NH2	ARG	A	160	26.70739	39.04332	34.93586	N_R	3	0	-0.80000
ATOM	1162	HNH2	ARG	A	160	26.45057	38.35943	34.30676	H_A	1	0	0.46000
ATOM	1163	HNH2	ARG	A	160	26.10610	39.39709	35.59487	H_A	1	0	0.46000
ATOM	1164	N	LEU	A	161	26.95104	46.04601	33.06631	N_R	3	0	-0.47000
ATOM	1165	HN	LEU	A	161	27.12745	46.52155	33.89374	H_A	1	0	0.31000
ATOM	1166	CA	LEU	A	161	26.93286	46.80888	31.85920	C_3	4	0	0.16000
ATOM	1167	HCA	LEU	A	161	26.37306	46.25163	31.10184	H_	1	0	0.00000
ATOM	1168	C	LEU	A	161	28.31927	47.04679	31.37959	C_R	3	0	0.51000
ATOM	1169	O	LEU	A	161	29.13740	47.70722	32.06808	O_2	1	2	-0.51000
ATOM	1170	CB	LEU	A	161	26.16088	48.13504	32.07085	C_3	4	0	0.00000
ATOM	1171	HCB	LEU	A	161	26.61383	48.65873	32.91829	H_	1	0	0.00000
ATOM	1172	HCB	LEU	A	161	25.13079	47.89992	32.35410	H_	1	0	0.00000
ATOM	1173	CG	LEU	A	161	26.14731	49.08224	30.82880	C_3	4	0	0.00000
ATOM	1174	HCG	LEU	A	161	27.17740	49.31519	30.55387	H_	1	0	0.00000
ATOM	1175	CD1	LEU	A	161	25.46953	48.46705	29.57551	C_3	4	0	0.00000
ATOM	1176	HCD1	LEU	A	161	24.44298	48.17565	29.80353	H_	1	0	0.00000
ATOM	1177	HCD1	LEU	A	161	25.46549	49.18968	28.75836	H_	1	0	0.00000
ATOM	1178	HCD1	LEU	A	161	26.01297	47.59013	29.22554	H_	1	0	0.00000
ATOM	1179	CD2	LEU	A	161	25.48274	50.42074	31.20339	C_3	4	0	0.00000
ATOM	1180	HCD2	LEU	A	161	25.96548	50.83411	32.08549	H_	1	0	0.00000
ATOM	1181	HCD2	LEU	A	161	25.60228	51.12925	30.38605	H_	1	0	0.00000
ATOM	1182	HCD2	LEU	A	161	24.42202	50.28325	31.41697	H_	1	0	0.00000
ATOM	1183	N	GLU	A	162	28.63830	46.57242	30.15767	N_R	3	0	-0.47000
ATOM	1184	HN	GLU	A	162	27.95037	46.06959	29.70003	H_A	1	0	0.31000
ATOM	1185	CA	GLU	A	162	29.88690	46.71110	29.47755	C_3	4	0	0.16000
ATOM	1186	HCA	GLU	A	162	30.65525	46.34642	30.16384	H_	1	0	0.00000
ATOM	1187	C	GLU	A	162	30.18696	48.12411	29.10330	C_R	3	0	0.51000
ATOM	1188	O	GLU	A	162	29.33344	48.79860	28.47517	O_2	1	2	-0.51000
ATOM	1189	CB	GLU	A	162	29.86412	45.79047	28.20854	C_3	4	0	0.00000

ATOM	1190	HCB	GLU	A	162	29.57546	46.36950	27.32555	H_	1	0	0.00000
ATOM	1191	HCB	GLU	A	162	29.10555	45.00765	28.30935	H_	1	0	0.00000
ATOM	1192	CG	GLU	A	162	31.21789	45.09004	27.91112	C_3	4	0	-0.10000
ATOM	1193	HCG	GLU	A	162	32.01012	45.84112	27.90334	H_	1	0	0.00000
ATOM	1194	HCG	GLU	A	162	31.16327	44.65289	26.91096	H_	1	0	0.00000
ATOM	1195	CD	GLU	A	162	31.57902	43.99706	28.84305	C_R	3	0	0.62000
ATOM	1196	OE1	GLU	A	162	30.81613	43.62124	29.76252	O_2	1	2	-0.76000
ATOM	1197	OE2	GLU	A	162	32.64182	43.36241	28.66354	O_2	1	2	-0.76000
ATOM	1198	N	GLY	A	163	31.38432	48.66792	29.41148	N_R	3	0	-0.47000
ATOM	1199	HN	GLY	A	163	31.94103	48.14330	29.98114	H_A	1	0	0.31000
ATOM	1200	CA	GLY	A	163	31.90744	49.92818	28.98304	C_3	4	0	0.16000
ATOM	1201	HCA	GLY	A	163	32.44765	50.36042	29.82392	H_	1	0	0.00000
ATOM	1202	HCA	GLY	A	163	31.08286	50.60400	28.75021	H_	1	0	0.00000
ATOM	1203	C	GLY	A	163	32.82224	49.85391	27.80227	C_R	3	0	0.51000
ATOM	1204	O	GLY	A	163	33.19401	48.72429	27.39597	O_2	1	2	-0.51000
ATOM	1205	N	PRO	A	164	33.21597	50.96497	27.10390	N_R	3	0	-0.29000
ATOM	1206	CA	PRO	A	164	33.79833	50.94503	25.77863	C_3	4	0	0.11000
ATOM	1207	HCA	PRO	A	164	32.98005	50.59656	25.13501	H_	1	0	0.00000
ATOM	1208	C	PRO	A	164	34.95190	50.09925	25.45453	C_2	3	0	0.51000
ATOM	1209	O	PRO	A	164	35.16353	49.93966	24.25781	O_2	1	2	-0.51000
ATOM	1210	CB	PRO	A	164	34.06637	52.43622	25.42662	C_3	4	0	0.00000
ATOM	1211	HCB	PRO	A	164	33.34119	52.78551	24.68709	H_	1	0	0.00000
ATOM	1212	HCB	PRO	A	164	35.07115	52.62853	25.04153	H_	1	0	0.00000
ATOM	1213	CG	PRO	A	164	33.86676	53.18935	26.74371	C_3	4	0	0.00000
ATOM	1214	HCG	PRO	A	164	33.46662	54.19429	26.58635	H_	1	0	0.00000
ATOM	1215	HCG	PRO	A	164	34.81574	53.25019	27.28324	H_	1	0	0.00000
ATOM	1216	CD	PRO	A	164	32.89419	52.29765	27.51728	C_3	4	0	0.18000
ATOM	1217	HCD	PRO	A	164	33.00380	52.46468	28.59036	H_	1	0	0.00000
ATOM	1218	HCD	PRO	A	164	31.86503	52.52637	27.22679	H_	1	0	0.00000
ATOM	1219	N	LEU	A	165	35.76084	49.52726	26.33305	N_R	3	0	-0.47000
ATOM	1220	HN	LEU	A	165	35.66153	49.70827	27.27157	H_A	1	0	0.31000
ATOM	1221	CA	LEU	A	165	36.82770	48.60075	26.03437	C_3	4	0	0.16000
ATOM	1222	HCA	LEU	A	165	36.83001	48.31872	24.98041	H_	1	0	0.00000
ATOM	1223	C	LEU	A	165	36.67185	47.30718	26.76182	C_R	3	0	0.51000
ATOM	1224	O	LEU	A	165	37.60331	46.47079	26.66131	O_2	1	2	-0.51000
ATOM	1225	CB	LEU	A	165	38.20030	49.27914	26.35507	C_3	4	0	0.00000
ATOM	1226	HCB	LEU	A	165	39.00829	48.55477	26.20560	H_	1	0	0.00000
ATOM	1227	HCB	LEU	A	165	38.20368	49.54501	27.41762	H_	1	0	0.00000
ATOM	1228	CG	LEU	A	165	38.54598	50.54634	25.50589	C_3	4	0	0.00000
ATOM	1229	HCG	LEU	A	165	37.71034	51.24925	25.56713	H_	1	0	0.00000
ATOM	1230	CD1	LEU	A	165	39.78775	51.27284	26.09265	C_3	4	0	0.00000
ATOM	1231	HCD1	LEU	A	165	40.66162	50.61844	26.07777	H_	1	0	0.00000
ATOM	1232	HCD1	LEU	A	165	40.01334	52.16992	25.51463	H_	1	0	0.00000
ATOM	1233	HCD1	LEU	A	165	39.59423	51.57503	27.12267	H_	1	0	0.00000
ATOM	1234	CD2	LEU	A	165	38.78772	50.21779	24.00494	C_3	4	0	0.00000
ATOM	1235	HCD2	LEU	A	165	37.89009	49.80745	23.54401	H_	1	0	0.00000
ATOM	1236	HCD2	LEU	A	165	39.05384	51.11963	23.45451	H_	1	0	0.00000
ATOM	1237	HCD2	LEU	A	165	39.59846	49.49551	23.89327	H_	1	0	0.00000
ATOM	1238	N	GLY	A	166	35.55793	46.98479	27.46781	N_R	3	0	-0.47000
ATOM	1239	HN	GLY	A	166	34.82391	47.60514	27.47102	H_A	1	0	0.31000
ATOM	1240	CA	GLY	A	166	35.36049	45.75636	28.19098	C_3	4	0	0.16000
ATOM	1241	HCA	GLY	A	166	36.13640	45.02112	27.96473	H_	1	0	0.00000
ATOM	1242	HCA	GLY	A	166	34.41693	45.33428	27.84710	H_	1	0	0.00000
ATOM	1243	C	GLY	A	166	35.30376	45.90117	29.66361	C_R	3	0	0.51000
ATOM	1244	O	GLY	A	166	35.16777	44.86463	30.35335	O_2	1	2	-0.51000
ATOM	1245	N	GLU	A	167	35.41992	47.10018	30.27994	N_R	3	0	-0.47000
ATOM	1246	HN	GLU	A	167	35.58632	47.88170	29.76165	H_A	1	0	0.31000

ATOM	1247	CA	GLU	A	167	35.25687	47.35104	31.67968	C_3	4	0	0.16000
ATOM	1248	HCA	GLU	A	167	35.80925	46.58375	32.23162	H_	1	0	0.00000
ATOM	1249	C	GLU	A	167	33.83435	47.29081	32.12090	C_R	3	0	0.51000
ATOM	1250	O	GLU	A	167	32.92079	47.18952	31.27303	O_2	1	2	-0.51000
ATOM	1251	CB	GLU	A	167	35.92009	48.72841	32.01173	C_3	4	0	0.00000
ATOM	1252	HCB	GLU	A	167	36.96178	48.71382	31.67794	H_	1	0	0.00000
ATOM	1253	HCB	GLU	A	167	35.95364	48.81512	33.10257	H_	1	0	0.00000
ATOM	1254	CG	GLU	A	167	35.24042	50.02767	31.46917	C_3	4	0	-0.10000
ATOM	1255	HCG	GLU	A	167	35.62508	50.85923	32.06602	H_	1	0	0.00000
ATOM	1256	HCG	GLU	A	167	34.16533	49.98251	31.65064	H_	1	0	0.00000
ATOM	1257	CD	GLU	A	167	35.45952	50.40011	30.05092	C_R	3	0	0.62000
ATOM	1258	OE1	GLU	A	167	35.95338	49.65137	29.18172	O_2	1	2	-0.76000
ATOM	1259	OE2	GLU	A	167	35.12224	51.53026	29.64209	O_2	1	2	-0.76000
ATOM	1260	N	GLU	A	168	33.52117	47.41263	33.42996	N_R	3	0	-0.47000
ATOM	1261	HN	GLU	A	168	34.26389	47.45172	34.04833	H_A	1	0	0.31000
ATOM	1262	CA	GLU	A	168	32.20066	47.52206	33.99007	C_3	4	0	0.16000
ATOM	1263	HCA	GLU	A	168	31.45768	47.10534	33.30488	H_	1	0	0.00000
ATOM	1264	C	GLU	A	168	31.89252	48.96416	34.19389	C_R	3	0	0.51000
ATOM	1265	O	GLU	A	168	32.66531	49.63537	34.92242	O_2	1	2	-0.51000
ATOM	1266	CB	GLU	A	168	32.12768	46.72935	35.33820	C_3	4	0	0.00000
ATOM	1267	HCB	GLU	A	168	31.46192	47.25433	36.03183	H_	1	0	0.00000
ATOM	1268	HCB	GLU	A	168	33.11035	46.69697	35.81939	H_	1	0	0.00000
ATOM	1269	CG	GLU	A	168	31.56258	45.28757	35.22634	C_3	4	0	-0.10000
ATOM	1270	HCG	GLU	A	168	30.56076	45.36370	34.80378	H_	1	0	0.00000
ATOM	1271	HCG	GLU	A	168	31.46660	44.88582	36.23778	H_	1	0	0.00000
ATOM	1272	CD	GLU	A	168	32.33763	44.29831	34.45159	C_R	3	0	0.62000
ATOM	1273	OE1	GLU	A	168	33.51035	44.51529	34.07438	O_2	1	2	-0.76000
ATOM	1274	OE2	GLU	A	168	31.84448	43.16256	34.25513	O_2	1	2	-0.76000
ATOM	1275	N	VAL	A	169	30.79614	49.54359	33.63730	N_R	3	0	-0.47000
ATOM	1276	HN	VAL	A	169	30.23555	48.97167	33.10528	H_A	1	0	0.31000
ATOM	1277	CA	VAL	A	169	30.39754	50.92316	33.81859	C_3	4	0	0.16000
ATOM	1278	HCA	VAL	A	169	31.17379	51.43261	34.40030	H_	1	0	0.00000
ATOM	1279	C	VAL	A	169	29.14777	51.00210	34.63395	C_R	3	0	0.51000
ATOM	1280	O	VAL	A	169	28.08618	50.47688	34.22628	O_2	1	2	-0.51000
ATOM	1281	CB	VAL	A	169	30.35334	51.72424	32.47080	C_3	4	0	0.00000
ATOM	1282	HCB	VAL	A	169	31.33187	51.59652	31.99436	H_	1	0	0.00000
ATOM	1283	CG1	VAL	A	169	29.30325	51.21402	31.44878	C_3	4	0	0.00000
ATOM	1284	HCG1	VAL	A	169	28.29573	51.35049	31.83085	H_	1	0	0.00000
ATOM	1285	HCG1	VAL	A	169	29.37865	51.75881	30.51050	H_	1	0	0.00000
ATOM	1286	HCG1	VAL	A	169	29.46773	50.16153	31.23325	H_	1	0	0.00000
ATOM	1287	CG2	VAL	A	169	30.18184	53.25193	32.71734	C_3	4	0	0.00000
ATOM	1288	HCG2	VAL	A	169	30.98980	53.62866	33.34706	H_	1	0	0.00000
ATOM	1289	HCG2	VAL	A	169	30.21280	53.80043	31.77887	H_	1	0	0.00000
ATOM	1290	HCG2	VAL	A	169	29.23034	53.46339	33.20643	H_	1	0	0.00000
ATOM	1291	N	GLU	A	170	29.17561	51.64702	35.82422	N_R	3	0	-0.47000
ATOM	1292	HN	GLU	A	170	30.02062	52.04390	36.07157	H_A	1	0	0.31000
ATOM	1293	CA	GLU	A	170	28.08889	51.81127	36.75411	C_3	4	0	0.16000
ATOM	1294	HCA	GLU	A	170	27.43147	50.93989	36.67022	H_	1	0	0.00000
ATOM	1295	C	GLU	A	170	27.23138	53.00191	36.47734	C_R	3	0	0.51000
ATOM	1296	O	GLU	A	170	27.50676	53.80906	35.55861	O_2	1	2	-0.51000
ATOM	1297	CB	GLU	A	170	28.68937	51.86843	38.20779	C_3	4	0	0.00000
ATOM	1298	HCB	GLU	A	170	28.26938	52.69633	38.78810	H_	1	0	0.00000
ATOM	1299	HCB	GLU	A	170	29.76482	52.06749	38.16624	H_	1	0	0.00000
ATOM	1300	CG	GLU	A	170	28.48065	50.56663	39.02848	C_3	4	0	-0.10000
ATOM	1301	HCG	GLU	A	170	29.07082	50.63546	39.94643	H_	1	0	0.00000
ATOM	1302	HCG	GLU	A	170	28.86666	49.72306	38.45008	H_	1	0	0.00000
ATOM	1303	CD	GLU	A	170	27.08050	50.28924	39.42053	C_R	3	0	0.62000

ATOM	1304	OE1	GLU	A	170	26.15035	51.11183	39.24070	O_2	1	2	-0.76000
ATOM	1305	OE2	GLU	A	170	26.80892	49.21013	39.98684	O_2	1	2	-0.76000
ATOM	1306	N	GLY	A	171	26.15653	53.19931	37.27569	N_R	3	0	-0.47000
ATOM	1307	HN	GLY	A	171	26.05112	52.52466	37.95342	H_A	1	0	0.31000
ATOM	1308	CA	GLY	A	171	25.20801	54.27579	37.23454	C_3	4	0	0.16000
ATOM	1309	HCA	GLY	A	171	25.45459	54.99745	36.45366	H	1	0	0.00000
ATOM	1310	HCA	GLY	A	171	25.26327	54.79131	38.19479	H	1	0	0.00000
ATOM	1311	C	GLY	A	171	23.81289	53.82467	37.02988	C_R	3	0	0.51000
ATOM	1312	O	GLY	A	171	23.56676	52.60672	36.86570	O_2	1	2	-0.51000
ATOM	1313	N	ARG	A	172	22.78842	54.71713	36.99409	N_R	3	0	-0.47000
ATOM	1314	HN	ARG	A	172	23.00213	55.65790	37.09258	H_A	1	0	0.31000
ATOM	1315	CA	ARG	A	172	21.40972	54.34616	36.79680	C_3	4	0	0.16000
ATOM	1316	HCA	ARG	A	172	21.17093	53.58733	37.55135	H	1	0	0.00000
ATOM	1317	C	ARG	A	172	21.22286	53.73713	35.44646	C_R	3	0	0.51000
ATOM	1318	O	ARG	A	172	21.42403	54.42347	34.41280	O_2	1	2	-0.51000
ATOM	1319	CB	ARG	A	172	20.40692	55.51741	37.03370	C_3	4	0	0.00000
ATOM	1320	HCb	ARG	A	172	19.40807	55.16401	36.76270	H	1	0	0.00000
ATOM	1321	HCb	ARG	A	172	20.65570	56.35072	36.37475	H	1	0	0.00000
ATOM	1322	CG	ARG	A	172	20.34477	56.02986	38.50376	C_3	4	0	0.00000
ATOM	1323	HCG	ARG	A	172	21.25318	56.59603	38.72483	H	1	0	0.00000
ATOM	1324	HCG	ARG	A	172	20.32557	55.16633	39.17512	H	1	0	0.00000
ATOM	1325	CD	ARG	A	172	19.10022	56.90144	38.83586	C_3	4	0	0.38000
ATOM	1326	HCD	ARG	A	172	19.09674	57.09111	39.91366	H	1	0	0.00000
ATOM	1327	HCD	ARG	A	172	18.18812	56.35074	38.58818	H	1	0	0.00000
ATOM	1328	NE	ARG	A	172	19.10181	58.15219	38.15341	N_R	3	0	-0.70000
ATOM	1329	HNE	ARG	A	172	19.81248	58.34532	37.54533	H_A	1	0	0.44000
ATOM	1330	CZ	ARG	A	172	18.24695	59.16727	38.28011	C_R	3	0	0.64000
ATOM	1331	NH1	ARG	A	172	17.23631	59.20140	39.13406	N_R	3	0	-0.80000
ATOM	1332	HNH1	ARG	A	172	16.66962	59.98402	39.15481	H_A	1	0	0.46000
ATOM	1333	HNH1	ARG	A	172	17.07044	58.45167	39.71487	H_A	1	0	0.46000
ATOM	1334	NH2	ARG	A	172	18.45193	60.21105	37.49375	N_R	3	0	-0.80000
ATOM	1335	HNH2	ARG	A	172	17.96221	61.04292	37.56043	H_A	1	0	0.46000
ATOM	1336	HNH2	ARG	A	172	19.10648	60.13986	36.79848	H_A	1	0	0.46000
ATOM	1337	N	LEU	A	173	20.88261	52.42898	35.36477	N_R	3	0	-0.47000
ATOM	1338	HN	LEU	A	173	20.79631	51.94859	36.20253	H_A	1	0	0.31000
ATOM	1339	CA	LEU	A	173	20.62839	51.69212	34.16561	C_3	4	0	0.16000
ATOM	1340	HCA	LEU	A	173	21.43668	51.89629	33.46507	H	1	0	0.00000
ATOM	1341	C	LEU	A	173	19.33360	52.09124	33.55338	C_R	3	0	0.51000
ATOM	1342	O	LEU	A	173	18.29247	52.12464	34.25498	O_2	1	2	-0.51000
ATOM	1343	CB	LEU	A	173	20.61828	50.15490	34.43419	C_3	4	0	0.00000
ATOM	1344	HCb	LEU	A	173	20.43101	49.63749	33.48638	H	1	0	0.00000
ATOM	1345	HCb	LEU	A	173	19.77510	49.93415	35.09414	H	1	0	0.00000
ATOM	1346	CG	LEU	A	173	21.90477	49.54546	35.07963	C_3	4	0	0.00000
ATOM	1347	HCG	LEU	A	173	22.10050	50.06669	36.02135	H	1	0	0.00000
ATOM	1348	CD1	LEU	A	173	21.67387	48.04629	35.42724	C_3	4	0	0.00000
ATOM	1349	HCD1	LEU	A	173	21.43991	47.47405	34.52750	H	1	0	0.00000
ATOM	1350	HCD1	LEU	A	173	22.56352	47.61784	35.89114	H	1	0	0.00000
ATOM	1351	HCD1	LEU	A	173	20.84568	47.94205	36.13024	H	1	0	0.00000
ATOM	1352	CD2	LEU	A	173	23.16464	49.69618	34.18475	C_3	4	0	0.00000
ATOM	1353	HCD2	LEU	A	173	23.40309	50.74746	34.02160	H	1	0	0.00000
ATOM	1354	HCD2	LEU	A	173	24.03014	49.23528	34.66347	H	1	0	0.00000
ATOM	1355	HCD2	LEU	A	173	23.00235	49.21594	33.21859	H	1	0	0.00000
ATOM	1356	N	LEU	A	174	19.28118	52.37842	32.23455	N_R	3	0	-0.47000
ATOM	1357	HN	LEU	A	174	20.11810	52.34581	31.76734	H_A	1	0	0.31000
ATOM	1358	CA	LEU	A	174	18.08665	52.68684	31.49300	C_3	4	0	0.16000
ATOM	1359	HCA	LEU	A	174	17.25064	52.19667	31.99997	H	1	0	0.00000
ATOM	1360	C	LEU	A	174	18.10938	52.10138	30.12924	C_R	3	0	0.51000

ATOM	1361	O	LEU	A	174	19.19702	51.76727	29.60349	O_2	1	2	-0.51000
ATOM	1362	CB	LEU	A	174	17.79713	54.22598	31.49505	C_3	4	0	0.00000
ATOM	1363	HCB	LEU	A	174	18.00010	54.60271	32.49812	H_	1	0	0.00000
ATOM	1364	HCB	LEU	A	174	16.72943	54.36903	31.32336	H_	1	0	0.00000
ATOM	1365	CG	LEU	A	174	18.54689	55.13126	30.46718	C_3	4	0	0.00000
ATOM	1366	HCG	LEU	A	174	18.29579	54.79589	29.45695	H_	1	0	0.00000
ATOM	1367	CD1	LEU	A	174	18.07173	56.60560	30.58077	C_3	4	0	0.00000
ATOM	1368	HCD1	LEU	A	174	18.28413	57.00282	31.57447	H_	1	0	0.00000
ATOM	1369	HCD1	LEU	A	174	18.57864	57.22704	29.84158	H_	1	0	0.00000
ATOM	1370	HCD1	LEU	A	174	16.99905	56.67245	30.39748	H_	1	0	0.00000
ATOM	1371	CD2	LEU	A	174	20.08298	55.06054	30.62009	C_3	4	0	0.00000
ATOM	1372	HCD2	LEU	A	174	20.42939	54.06771	30.36400	H_	1	0	0.00000
ATOM	1373	HCD2	LEU	A	174	20.57044	55.75203	29.94048	H_	1	0	0.00000
ATOM	1374	HCD2	LEU	A	174	20.38070	55.29691	31.64165	H_	1	0	0.00000
ATOM	1375	N	LEU	A	175	16.95908	51.96781	29.43125	N_R	3	0	-0.47000
ATOM	1376	HN	LEU	A	175	16.15767	52.21384	29.90753	H_A	1	0	0.31000
ATOM	1377	CA	LEU	A	175	16.92206	51.62552	28.02825	C_3	4	0	0.16000
ATOM	1378	HCA	LEU	A	175	17.69429	50.88607	27.81247	H_	1	0	0.00000
ATOM	1379	C	LEU	A	175	17.22682	52.84482	27.23434	C_R	3	0	0.51000
ATOM	1380	O	LEU	A	175	16.52124	53.86560	27.42183	O_2	1	2	-0.51000
ATOM	1381	CB	LEU	A	175	15.56692	50.99854	27.59678	C_3	4	0	0.00000
ATOM	1382	HCB	LEU	A	175	15.52619	50.98434	26.50834	H_	1	0	0.00000
ATOM	1383	HCB	LEU	A	175	14.76575	51.65323	27.94488	H_	1	0	0.00000
ATOM	1384	CG	LEU	A	175	15.31478	49.53829	28.08374	C_3	4	0	0.00000
ATOM	1385	HCG	LEU	A	175	15.63185	49.47189	29.12394	H_	1	0	0.00000
ATOM	1386	CD1	LEU	A	175	13.80144	49.18571	28.02725	C_3	4	0	0.00000
ATOM	1387	HCD1	LEU	A	175	13.42486	49.26594	27.00670	H_	1	0	0.00000
ATOM	1388	HCD1	LEU	A	175	13.63164	48.16856	28.38307	H_	1	0	0.00000
ATOM	1389	HCD1	LEU	A	175	13.22828	49.86141	28.66194	H_	1	0	0.00000
ATOM	1390	CD2	LEU	A	175	16.13085	48.48791	27.27756	C_3	4	0	0.00000
ATOM	1391	HCD2	LEU	A	175	17.20025	48.67650	27.35899	H_	1	0	0.00000
ATOM	1392	HCD2	LEU	A	175	15.94151	47.48476	27.66237	H_	1	0	0.00000
ATOM	1393	HCD2	LEU	A	175	15.85576	48.51219	26.22165	H_	1	0	0.00000
ATOM	1394	N	ARG	A	176	18.26289	52.87291	26.35557	N_R	3	0	-0.47000
ATOM	1395	HN	ARG	A	176	18.76935	52.06638	26.23161	H_A	1	0	0.31000
ATOM	1396	CA	ARG	A	176	18.71604	54.04805	25.65626	C_3	4	0	0.16000
ATOM	1397	HCA	ARG	A	176	19.15711	54.68086	26.42885	H_	1	0	0.00000
ATOM	1398	C	ARG	A	176	17.63555	54.82057	24.97847	C_R	3	0	0.51000
ATOM	1399	O	ARG	A	176	16.84409	54.20976	24.22285	O_2	1	2	-0.51000
ATOM	1400	CB	ARG	A	176	19.87207	53.71900	24.66699	C_3	4	0	0.00000
ATOM	1401	HCB	ARG	A	176	20.68302	53.24612	25.22626	H_	1	0	0.00000
ATOM	1402	HCB	ARG	A	176	20.26358	54.65953	24.26707	H_	1	0	0.00000
ATOM	1403	CG	ARG	A	176	19.49044	52.79217	23.47742	C_3	4	0	0.00000
ATOM	1404	HCG	ARG	A	176	18.66794	53.22984	22.92047	H_	1	0	0.00000
ATOM	1405	HCG	ARG	A	176	19.14854	51.83090	23.85924	H_	1	0	0.00000
ATOM	1406	CD	ARG	A	176	20.65356	52.58281	22.48562	C_3	4	0	0.38000
ATOM	1407	HCD	ARG	A	176	21.52826	52.21451	23.02202	H_	1	0	0.00000
ATOM	1408	HCD	ARG	A	176	20.91533	53.54146	22.03074	H_	1	0	0.00000
ATOM	1409	NE	ARG	A	176	20.25083	51.69869	21.43961	N_R	3	0	-0.70000
ATOM	1410	HNE	ARG	A	176	19.36334	51.75219	21.09368	H_A	1	0	0.44000
ATOM	1411	CZ	ARG	A	176	20.96595	50.74693	20.84986	C_R	3	0	0.64000
ATOM	1412	NH1	ARG	A	176	22.14527	50.33909	21.27078	N_R	3	0	-0.80000
ATOM	1413	HNH1	ARG	A	176	22.66673	49.66897	20.83744	H_A	1	0	0.46000
ATOM	1414	HNH1	ARG	A	176	22.43732	50.59955	22.14049	H_A	1	0	0.46000
ATOM	1415	NH2	ARG	A	176	20.36973	50.15431	19.83451	N_R	3	0	-0.80000
ATOM	1416	HNH2	ARG	A	176	20.79387	49.44747	19.32943	H_A	1	0	0.46000
ATOM	1417	HNH2	ARG	A	176	19.46589	50.42712	19.67867	H_A	1	0	0.46000

ATOM	1418	N	THR	A	177	17.50729	56.15711	25.16629	N_R	3	0	-0.47000
ATOM	1419	HN	THR	A	177	18.16218	56.55607	25.74883	H_A	1	0	0.31000
ATOM	1420	CA	THR	A	177	16.46079	56.96775	24.56674	C_3	4	0	0.16000
ATOM	1421	HCA	THR	A	177	15.73208	56.30826	24.09754	H	1	0	0.00000
ATOM	1422	C	THR	A	177	16.89382	57.79763	23.41936	C_R	3	0	0.51000
ATOM	1423	O	THR	A	177	16.05420	58.48311	22.78877	O_2	1	2	-0.51000
ATOM	1424	CB	THR	A	177	15.67385	57.75735	25.64857	C_3	4	0	0.23000
ATOM	1425	HCB	THR	A	177	15.44956	57.06936	26.47180	H	1	0	0.00000
ATOM	1426	OG1	THR	A	177	14.40625	58.15939	25.11236	O_3	2	2	-0.66000
ATOM	1427	HOG1	THR	A	177	14.01027	57.27216	25.02768	H_A	1	0	0.43000
ATOM	1428	CG2	THR	A	177	16.45417	58.93869	26.25661	C_3	4	0	0.00000
ATOM	1429	HCG2	THR	A	177	16.58865	59.73943	25.52727	H	1	0	0.00000
ATOM	1430	HCG2	THR	A	177	15.90650	59.30727	27.11919	H	1	0	0.00000
ATOM	1431	HCG2	THR	A	177	17.42692	58.60514	26.60737	H	1	0	0.00000
ATOM	1432	N	HSD	A	178	18.17052	57.71890	22.99559	N_R	3	0	-0.47000
ATOM	1433	HN	HSD	A	178	18.78131	57.23076	23.56732	H_A	1	0	0.31000
ATOM	1434	CA	HSD	A	178	18.69196	58.20599	21.75419	C_3	4	0	0.16000
ATOM	1435	HCA	HSD	A	178	17.97790	57.90520	20.98235	H	1	0	0.00000
ATOM	1436	C	HSD	A	178	19.97001	57.51508	21.42077	C_R	3	0	0.51000
ATOM	1437	O	HSD	A	178	20.59728	56.89982	22.31544	O_2	1	2	-0.51000
ATOM	1438	CB	HSD	A	178	18.79195	59.75622	21.68728	C_3	4	0	0.10000
ATOM	1439	HCB	HSD	A	178	17.77692	60.15757	21.66328	H	1	0	0.00000
ATOM	1440	HCB	HSD	A	178	19.25639	60.01571	20.73567	H	1	0	0.00000
ATOM	1441	CG	HSD	A	178	19.51679	60.47995	22.75836	C_R	3	0	0.22000
ATOM	1442	ND1	HSD	A	178	19.57263	61.82214	22.83069	N_R	2	1	-0.70000
ATOM	1443	CD2	HSD	A	178	20.25653	59.98937	23.83141	C_R	3	0	0.04000
ATOM	1444	HCD2	HSD	A	178	20.41090	59.00988	24.06181	H	1	0	0.00000
ATOM	1445	CE1	HSD	A	178	20.31858	62.14784	23.90063	C_R	3	0	0.38000
ATOM	1446	HCE1	HSD	A	178	20.52983	63.10180	24.19303	H	1	0	0.00000
ATOM	1447	NE2	HSD	A	178	20.74363	61.03515	24.51523	N_R	3	0	-0.36000
ATOM	1448	HNE2	HSD	A	178	21.29485	60.99489	25.30881	H_A	1	0	0.32000
ATOM	1449	N	THR	A	179	20.43721	57.48940	20.15007	N_R	3	0	-0.47000
ATOM	1450	HN	THR	A	179	19.86907	57.90785	19.49037	H_A	1	0	0.31000
ATOM	1451	CA	THR	A	179	21.66818	56.83849	19.73972	C_3	4	0	0.16000
ATOM	1452	HCA	THR	A	179	21.65239	55.84261	20.19705	H	1	0	0.00000
ATOM	1453	C	THR	A	179	22.88808	57.52082	20.27826	C_R	3	0	0.51000
ATOM	1454	O	THR	A	179	23.76514	56.82444	20.84914	O_2	1	2	-0.51000
ATOM	1455	CB	THR	A	179	21.73460	56.60715	18.19468	C_3	4	0	0.23000
ATOM	1456	HCB	THR	A	179	22.76714	56.71042	17.84641	H	1	0	0.00000
ATOM	1457	OG1	THR	A	179	20.91618	57.53585	17.48524	O_3	2	2	-0.66000
ATOM	1458	HOG1	THR	A	179	21.37594	58.38694	17.54239	H_A	1	0	0.43000
ATOM	1459	CG2	THR	A	179	21.26373	55.20159	17.75299	C_3	4	0	0.00000
ATOM	1460	HCG2	THR	A	179	20.23009	55.03438	18.05561	H	1	0	0.00000
ATOM	1461	HCG2	THR	A	179	21.33280	55.10698	16.66686	H	1	0	0.00000
ATOM	1462	HCG2	THR	A	179	21.89418	54.43514	18.20564	H	1	0	0.00000
ATOM	1463	N	SER	A	180	23.05757	58.86252	20.16495	N_R	3	0	-0.47000
ATOM	1464	HN	SER	A	180	22.61013	59.27300	19.41745	H_A	1	0	0.31000
ATOM	1465	CA	SER	A	180	23.91989	59.76203	20.90955	C_3	4	0	0.16000
ATOM	1466	HCA	SER	A	180	24.48473	60.23824	20.10464	H	1	0	0.00000
ATOM	1467	C	SER	A	180	24.92390	59.18461	21.86922	C_R	3	0	0.51000
ATOM	1468	O	SER	A	180	26.12244	59.39484	21.57525	O_2	1	2	-0.51000
ATOM	1469	CB	SER	A	180	23.14793	60.94181	21.57450	C_3	4	0	0.23000
ATOM	1470	HCB	SER	A	180	23.81812	61.79568	21.69913	H	1	0	0.00000
ATOM	1471	HCB	SER	A	180	22.78045	60.67617	22.56150	H	1	0	0.00000
ATOM	1472	OG	SER	A	180	22.02794	61.38076	20.81133	O_3	2	2	-0.66000
ATOM	1473	HOG	SER	A	180	21.43342	60.60353	20.77498	H_A	1	0	0.43000
ATOM	1474	N	PRO	A	181	24.68190	58.43713	22.99713	N_R	3	0	-0.29000

ATOM	1475	CA	PRO	A	181	25.69409	57.73566	23.76959	C_3	4	0	0.11000
ATOM	1476	HCA	PRO	A	181	26.13072	58.46148	24.46538	H_	1	0	0.00000
ATOM	1477	C	PRO	A	181	26.77259	57.09435	23.01480	C_2	3	0	0.51000
ATOM	1478	O	PRO	A	181	27.93941	57.18923	23.39595	O_2	1	2	-0.51000
ATOM	1479	CB	PRO	A	181	24.90297	56.67200	24.58722	C_3	4	0	0.00000
ATOM	1480	HC	PRO	A	181	24.97720	56.88011	25.65348	H_	1	0	0.00000
ATOM	1481	HC	PRO	A	181	25.24246	55.64492	24.42014	H_	1	0	0.00000
ATOM	1482	CG	PRO	A	181	23.44168	56.81594	24.14397	C_3	4	0	0.00000
ATOM	1483	HCG	PRO	A	181	22.74076	56.67911	24.97092	H_	1	0	0.00000
ATOM	1484	HCG	PRO	A	181	23.21187	56.08805	23.36121	H_	1	0	0.00000
ATOM	1485	CD	PRO	A	181	23.39419	58.24059	23.58121	C_3	4	0	0.18000
ATOM	1486	HCD	PRO	A	181	22.57301	58.34126	22.87962	H_	1	0	0.00000
ATOM	1487	HCD	PRO	A	181	23.25322	58.96390	24.38875	H_	1	0	0.00000
ATOM	1488	N	MET	A	182	26.48972	56.44976	21.89283	N_R	3	0	-0.47000
ATOM	1489	HN	MET	A	182	25.58368	56.50420	21.57242	H_A	1	0	0.31000
ATOM	1490	CA	MET	A	182	27.45675	55.73856	21.09969	C_3	4	0	0.16000
ATOM	1491	HCA	MET	A	182	27.94822	55.05786	21.79655	H_	1	0	0.00000
ATOM	1492	C	MET	A	182	28.50316	56.63374	20.51822	C_R	3	0	0.51000
ATOM	1493	O	MET	A	182	29.62416	56.14081	20.24137	O_2	1	2	-0.51000
ATOM	1494	CB	MET	A	182	26.74690	54.85221	20.03622	C_3	4	0	0.00000
ATOM	1495	HC	MET	A	182	26.23470	55.50759	19.32760	H_	1	0	0.00000
ATOM	1496	HC	MET	A	182	25.97964	54.24991	20.53186	H_	1	0	0.00000
ATOM	1497	CG	MET	A	182	27.67799	53.88731	19.24861	C_3	4	0	0.04000
ATOM	1498	HCG	MET	A	182	28.41326	54.46760	18.68977	H_	1	0	0.00000
ATOM	1499	HCG	MET	A	182	27.08469	53.32513	18.52793	H_	1	0	0.00000
ATOM	1500	SD	MET	A	182	28.51581	52.68135	20.31123	S_3	2	0	-0.09000
ATOM	1501	CE	MET	A	182	29.75605	52.12834	19.12095	C_3	4	0	0.05000
ATOM	1502	HCE	MET	A	182	30.42219	52.95131	18.87001	H_	1	0	0.00000
ATOM	1503	HCE	MET	A	182	30.34206	51.32523	19.56748	H_	1	0	0.00000
ATOM	1504	HCE	MET	A	182	29.27763	51.76448	18.21262	H_	1	0	0.00000
ATOM	1505	N	GLN	A	183	28.32495	57.97718	20.41635	N_R	3	0	-0.47000
ATOM	1506	HN	GLN	A	183	27.50419	58.35566	20.72908	H_A	1	0	0.31000
ATOM	1507	CA	GLN	A	183	29.33466	58.93127	20.05401	C_3	4	0	0.16000
ATOM	1508	HCA	GLN	A	183	29.70044	58.68792	19.05284	H_	1	0	0.00000
ATOM	1509	C	GLN	A	183	30.43090	58.89730	21.02202	C_2	3	0	0.51000
ATOM	1510	O	GLN	A	183	31.59818	58.84687	20.65029	O_2	1	2	-0.51000
ATOM	1511	CB	GLN	A	183	28.77733	60.39299	20.06012	C_3	4	0	0.00000
ATOM	1512	HC	GLN	A	183	29.62805	61.06107	19.90884	H_	1	0	0.00000
ATOM	1513	HC	GLN	A	183	28.37050	60.62089	21.05062	H_	1	0	0.00000
ATOM	1514	CG	GLN	A	183	27.70571	60.78172	19.00043	C_3	4	0	0.00000
ATOM	1515	HCG	GLN	A	183	26.80551	60.18543	19.14910	H_	1	0	0.00000
ATOM	1516	HCG	GLN	A	183	28.07557	60.56604	17.99932	H_	1	0	0.00000
ATOM	1517	CD	GLN	A	183	27.37478	62.22928	19.07457	C_R	3	0	0.55000
ATOM	1518	OE1	GLN	A	183	28.23650	63.09453	19.34864	O_2	1	2	-0.55000
ATOM	1519	NE2	GLN	A	183	26.16511	62.73994	18.83100	N_R	3	0	-0.60000
ATOM	1520	HNE2	GLN	A	183	26.03872	63.69182	18.93546	H_A	1	0	0.30000
ATOM	1521	HNE2	GLN	A	183	25.43072	62.20795	18.52768	H_A	1	0	0.30000
ATOM	1522	N	VAL	A	184	30.12127	58.90083	22.31005	N_R	3	0	-0.47000
ATOM	1523	HN	VAL	A	184	29.21399	58.67894	22.54268	H_A	1	0	0.31000
ATOM	1524	CA	VAL	A	184	31.02119	59.02668	23.41227	C_3	4	0	0.16000
ATOM	1525	HCA	VAL	A	184	31.70916	59.85584	23.20793	H_	1	0	0.00000
ATOM	1526	C	VAL	A	184	31.76783	57.74876	23.49071	C_R	3	0	0.51000
ATOM	1527	O	VAL	A	184	33.01563	57.78722	23.45173	O_2	1	2	-0.51000
ATOM	1528	CB	VAL	A	184	30.26088	59.34565	24.74421	C_3	4	0	0.00000
ATOM	1529	HC	VAL	A	184	29.67993	58.46429	25.03009	H_	1	0	0.00000
ATOM	1530	CG1	VAL	A	184	31.23980	59.65720	25.91072	C_3	4	0	0.00000
ATOM	1531	HCG1	VAL	A	184	31.76620	60.59256	25.73386	H_	1	0	0.00000

ATOM	1532	HCG1	VAL	A	184	30.69253	59.75151	26.84602	H_	1	0	0.00000
ATOM	1533	HCG1	VAL	A	184	31.97342	58.86121	26.02805	H_	1	0	0.00000
ATOM	1534	CG2	VAL	A	184	29.25429	60.51953	24.59473	C_3	4	0	0.00000
ATOM	1535	HCG2	VAL	A	184	28.48324	60.27171	23.86391	H_	1	0	0.00000
ATOM	1536	HCG2	VAL	A	184	28.75599	60.71880	25.54543	H_	1	0	0.00000
ATOM	1537	HCG2	VAL	A	184	29.76797	61.42666	24.26944	H_	1	0	0.00000
ATOM	1538	N	ARG	A	185	31.09253	56.57022	23.48839	N_R	3	0	-0.47000
ATOM	1539	HN	ARG	A	185	30.12729	56.63278	23.49408	H_A	1	0	0.31000
ATOM	1540	CA	ARG	A	185	31.72516	55.27756	23.44376	C_3	4	0	0.16000
ATOM	1541	HCA	ARG	A	185	32.26313	55.14837	24.38820	H_	1	0	0.00000
ATOM	1542	C	ARG	A	185	32.70181	55.16070	22.31674	C_R	3	0	0.51000
ATOM	1543	O	ARG	A	185	33.89895	54.86317	22.57213	O_2	1	2	-0.51000
ATOM	1544	CB	ARG	A	185	30.67787	54.13528	23.33790	C_3	4	0	0.00000
ATOM	1545	HC	ARG	A	185	31.20441	53.19070	23.16442	H_	1	0	0.00000
ATOM	1546	HC	ARG	A	185	30.04296	54.31730	22.47154	H_	1	0	0.00000
ATOM	1547	CG	ARG	A	185	29.78925	53.95211	24.59907	C_3	4	0	0.00000
ATOM	1548	HCG	ARG	A	185	29.24096	54.87452	24.80798	H_	1	0	0.00000
ATOM	1549	HCG	ARG	A	185	30.43672	53.74158	25.45401	H_	1	0	0.00000
ATOM	1550	CD	ARG	A	185	28.78044	52.78767	24.42432	C_3	4	0	0.38000
ATOM	1551	HCD	ARG	A	185	29.27711	51.92101	23.97883	H_	1	0	0.00000
ATOM	1552	HCD	ARG	A	185	27.98952	53.09456	23.73611	H_	1	0	0.00000
ATOM	1553	NE	ARG	A	185	28.16834	52.42923	25.65716	N_R	3	0	-0.70000
ATOM	1554	HNE	ARG	A	185	27.39088	52.91484	25.93205	H_A	1	0	0.44000
ATOM	1555	CZ	ARG	A	185	28.53677	51.44111	26.46874	C_R	3	0	0.64000
ATOM	1556	NH1	ARG	A	185	29.52875	50.59011	26.26575	N_R	3	0	-0.80000
ATOM	1557	HNH1	ARG	A	185	29.62681	49.91901	26.93825	H_A	1	0	0.46000
ATOM	1558	HNH1	ARG	A	185	30.10035	50.63164	25.49187	H_A	1	0	0.46000
ATOM	1559	NH2	ARG	A	185	27.87622	51.22184	27.58834	N_R	3	0	-0.80000
ATOM	1560	HNH2	ARG	A	185	28.16805	50.46981	28.11074	H_A	1	0	0.46000
ATOM	1561	HNH2	ARG	A	185	27.14686	51.79234	27.84759	H_A	1	0	0.46000
ATOM	1562	N	TYR	A	186	32.32561	55.42088	21.03438	N_R	3	0	-0.47000
ATOM	1563	HN	TYR	A	186	31.41485	55.65790	20.84662	H_A	1	0	0.31000
ATOM	1564	CA	TYR	A	186	33.22132	55.35964	19.91512	C_3	4	0	0.16000
ATOM	1565	HCA	TYR	A	186	33.58491	54.32527	19.88499	H_	1	0	0.00000
ATOM	1566	C	TYR	A	186	34.37926	56.28042	20.08327	C_R	3	0	0.51000
ATOM	1567	O	TYR	A	186	35.53063	55.80853	19.94279	O_2	1	2	-0.51000
ATOM	1568	CB	TYR	A	186	32.50931	55.62582	18.55615	C_3	4	0	0.00000
ATOM	1569	HC	TYR	A	186	32.18745	56.66921	18.49397	H_	1	0	0.00000
ATOM	1570	HC	TYR	A	186	31.60512	55.01871	18.48960	H_	1	0	0.00000
ATOM	1571	CG	TYR	A	186	33.42147	55.28750	17.42646	C_R	3	0	0.00000
ATOM	1572	CD1	TYR	A	186	33.48724	53.96903	16.91699	C_R	3	0	0.00000
ATOM	1573	HCD1	TYR	A	186	32.85971	53.24379	17.27827	H_	1	0	0.00000
ATOM	1574	CD2	TYR	A	186	34.31896	56.25579	16.91938	C_R	3	0	0.00000
ATOM	1575	HCD2	TYR	A	186	34.29145	57.21708	17.26793	H_	1	0	0.00000
ATOM	1576	CE1	TYR	A	186	34.43379	53.62792	15.93031	C_R	3	0	0.00000
ATOM	1577	HCE1	TYR	A	186	34.46278	52.67325	15.56573	H_	1	0	0.00000
ATOM	1578	CE2	TYR	A	186	35.28072	55.90605	15.95467	C_R	3	0	0.00000
ATOM	1579	HCE2	TYR	A	186	35.93368	56.60874	15.61248	H_	1	0	0.00000
ATOM	1580	CZ	TYR	A	186	35.33630	54.59600	15.44968	C_R	3	0	0.11000
ATOM	1581	OH	TYR	A	186	36.22263	54.29004	14.47506	O_R	2	2	-0.54000
ATOM	1582	HOH	TYR	A	186	36.24400	53.39011	14.09726	H_A	1	0	0.43000
ATOM	1583	N	MET	A	187	34.23667	57.59746	20.38299	N_R	3	0	-0.47000
ATOM	1584	HN	MET	A	187	33.35154	57.96358	20.47069	H_A	1	0	0.31000
ATOM	1585	CA	MET	A	187	35.35921	58.47586	20.58771	C_3	4	0	0.16000
ATOM	1586	HCA	MET	A	187	35.91006	58.51631	19.64113	H_	1	0	0.00000
ATOM	1587	C	MET	A	187	36.28449	57.95952	21.63925	C_R	3	0	0.51000
ATOM	1588	O	MET	A	187	37.48502	57.74297	21.33161	O_2	1	2	-0.51000

ATOM	1589	CB	MET	A	187	34.90432	59.92275	20.92266	C_3	4	0	0.00000
ATOM	1590	HC	MET	A	187	35.77619	60.46855	21.27633	H_	1	0	0.00000
ATOM	1591	HC	MET	A	187	34.15705	59.90722	21.72061	H_	1	0	0.00000
ATOM	1592	CG	MET	A	187	34.37266	60.71099	19.70494	C_3	4	0	0.04000
ATOM	1593	HCG	MET	A	187	33.47171	60.24712	19.30393	H_	1	0	0.00000
ATOM	1594	HCG	MET	A	187	35.14074	60.69559	18.93402	H_	1	0	0.00000
ATOM	1595	SD	MET	A	187	34.09789	62.45966	20.08545	S_3	2	0	-0.09000
ATOM	1596	CE	MET	A	187	32.38330	62.37761	20.63694	C_3	4	0	0.05000
ATOM	1597	HCE	MET	A	187	32.28133	61.69512	21.47924	H_	1	0	0.00000
ATOM	1598	HCE	MET	A	187	32.06278	63.37326	20.94155	H_	1	0	0.00000
ATOM	1599	HCE	MET	A	187	31.75755	62.04409	19.81238	H_	1	0	0.00000
ATOM	1600	N	VAL	A	188	35.82140	57.63335	22.87373	N_R	3	0	-0.47000
ATOM	1601	HN	VAL	A	188	34.88578	57.73699	23.03816	H_A	1	0	0.31000
ATOM	1602	CA	VAL	A	188	36.59994	57.08308	23.95311	C_3	4	0	0.16000
ATOM	1603	HCA	VAL	A	188	37.26841	57.87671	24.29527	H_	1	0	0.00000
ATOM	1604	C	VAL	A	188	37.42532	55.94663	23.47215	C_R	3	0	0.51000
ATOM	1605	O	VAL	A	188	38.65077	55.96332	23.72724	O_2	1	2	-0.51000
ATOM	1606	CB	VAL	A	188	35.70262	56.66918	25.17243	C_3	4	0	0.00000
ATOM	1607	HC	VAL	A	188	34.85843	56.08694	24.79178	H_	1	0	0.00000
ATOM	1608	CG1	VAL	A	188	36.43402	55.76659	26.21300	C_3	4	0	0.00000
ATOM	1609	HCG1	VAL	A	188	37.30094	56.28020	26.63140	H_	1	0	0.00000
ATOM	1610	HCG1	VAL	A	188	35.75791	55.50168	27.01947	H_	1	0	0.00000
ATOM	1611	HCG1	VAL	A	188	36.76457	54.82991	25.76384	H_	1	0	0.00000
ATOM	1612	CG2	VAL	A	188	35.12298	57.91286	25.90636	C_3	4	0	0.00000
ATOM	1613	HCG2	VAL	A	188	34.60788	58.57215	25.21368	H_	1	0	0.00000
ATOM	1614	HCG2	VAL	A	188	34.40531	57.60607	26.66840	H_	1	0	0.00000
ATOM	1615	HCG2	VAL	A	188	35.91997	58.48468	26.38376	H_	1	0	0.00000
ATOM	1616	N	ALA	A	189	36.86626	54.93354	22.77497	N_R	3	0	-0.47000
ATOM	1617	HN	ALA	A	189	35.91074	54.94805	22.65039	H_A	1	0	0.31000
ATOM	1618	CA	ALA	A	189	37.59407	53.80569	22.27337	C_3	4	0	0.16000
ATOM	1619	HCA	ALA	A	189	38.16399	53.40134	23.11690	H_	1	0	0.00000
ATOM	1620	C	ALA	A	189	38.56734	54.03266	21.15309	C_R	3	0	0.51000
ATOM	1621	O	ALA	A	189	39.29860	53.04813	20.88154	O_2	1	2	-0.51000
ATOM	1622	CB	ALA	A	189	36.54804	52.72731	21.88748	C_3	4	0	0.00000
ATOM	1623	HC	ALA	A	189	35.86738	53.10993	21.12663	H_	1	0	0.00000
ATOM	1624	HC	ALA	A	189	37.03135	51.82553	21.50610	H_	1	0	0.00000
ATOM	1625	HC	ALA	A	189	35.95904	52.44466	22.76018	H_	1	0	0.00000
ATOM	1626	N	HSD	A	190	38.71392	55.17496	20.41353	N_R	3	0	-0.47000
ATOM	1627	HN	HSD	A	190	38.23198	55.96153	20.69250	H_A	1	0	0.31000
ATOM	1628	CA	HSD	A	190	39.50586	55.24620	19.18581	C_3	4	0	0.16000
ATOM	1629	HCA	HSD	A	190	40.16046	54.37182	19.10834	H_	1	0	0.00000
ATOM	1630	C	HSD	A	190	40.48833	56.37554	19.14045	C_R	3	0	0.51000
ATOM	1631	O	HSD	A	190	41.33383	56.43016	20.06134	O_2	1	2	-0.51000
ATOM	1632	CB	HSD	A	190	38.57672	55.15246	17.93533	C_3	4	0	0.10000
ATOM	1633	HC	HSD	A	190	39.18269	55.21762	17.02671	H_	1	0	0.00000
ATOM	1634	HC	HSD	A	190	37.87539	55.99042	17.92679	H_	1	0	0.00000
ATOM	1635	CG	HSD	A	190	37.82250	53.88091	17.87511	C_R	3	0	0.22000
ATOM	1636	ND1	HSD	A	190	36.68451	53.62042	18.53567	N_R	2	1	-0.70000
ATOM	1637	CD2	HSD	A	190	38.15154	52.73393	17.15750	C_R	3	0	0.04000
ATOM	1638	HCD2	HSD	A	190	38.96123	52.60466	16.54998	H_	1	0	0.00000
ATOM	1639	CE1	HSD	A	190	36.32447	52.35938	18.26169	C_R	3	0	0.38000
ATOM	1640	HCE1	HSD	A	190	35.49714	51.89079	18.63282	H_	1	0	0.00000
ATOM	1641	NE2	HSD	A	190	37.21127	51.81886	17.41907	N_R	3	0	-0.36000
ATOM	1642	HNE2	HSD	A	190	37.17346	50.91800	17.07065	H_A	1	0	0.32000
ATOM	1643	N	THR	A	191	40.57756	57.24884	18.09891	N_R	3	0	-0.47000
ATOM	1644	HN	THR	A	191	39.89509	57.14482	17.42033	H_A	1	0	0.31000
ATOM	1645	CA	THR	A	191	41.57781	58.27111	17.81807	C_3	4	0	0.16000

ATOM	1646	HCA	THR	A	191	41.65887	58.90730	18.70131	H_	1	0	0.00000
ATOM	1647	C	THR	A	191	41.09142	59.07779	16.64535	C_R	3	0	0.51000
ATOM	1648	O	THR	A	191	40.72943	58.41571	15.64178	O_2	1	2	-0.51000
ATOM	1649	CB	THR	A	191	43.00512	57.67429	17.51268	C_3	4	0	0.23000
ATOM	1650	HCB	THR	A	191	42.88336	56.78308	16.88921	H_	1	0	0.00000
ATOM	1651	OG1	THR	A	191	43.65609	57.27075	18.71833	O_3	2	2	-0.66000
ATOM	1652	HOG1	THR	A	191	42.91941	56.91600	19.21835	H_A	1	0	0.43000
ATOM	1653	CG2	THR	A	191	44.02579	58.60978	16.81246	C_3	4	0	0.00000
ATOM	1654	HCG2	THR	A	191	44.17925	59.51497	17.39983	H_	1	0	0.00000
ATOM	1655	HCG2	THR	A	191	44.98614	58.10263	16.70381	H_	1	0	0.00000
ATOM	1656	HCG2	THR	A	191	43.67986	58.87940	15.81645	H_	1	0	0.00000
ATOM	1657	N	PRO	A	192	41.03792	60.44652	16.55780	N_R	3	0	-0.29000
ATOM	1658	CA	PRO	A	192	40.61590	61.15780	15.36412	C_3	4	0	0.11000
ATOM	1659	HCA	PRO	A	192	39.70434	60.70134	14.97538	H_	1	0	0.00000
ATOM	1660	C	PRO	A	192	41.62587	61.21340	14.28977	C_2	3	0	0.51000
ATOM	1661	O	PRO	A	192	42.79454	61.07764	14.63641	O_2	1	2	-0.51000
ATOM	1662	CB	PRO	A	192	40.26407	62.56574	15.90155	C_3	4	0	0.00000
ATOM	1663	HCB	PRO	A	192	39.22943	62.57656	16.25495	H_	1	0	0.00000
ATOM	1664	HCB	PRO	A	192	40.38600	63.36024	15.15995	H_	1	0	0.00000
ATOM	1665	CG	PRO	A	192	41.21225	62.76115	17.09128	C_3	4	0	0.00000
ATOM	1666	HCG	PRO	A	192	40.77104	63.40297	17.85892	H_	1	0	0.00000
ATOM	1667	HCG	PRO	A	192	42.15377	63.20276	16.75156	H_	1	0	0.00000
ATOM	1668	CD	PRO	A	192	41.45173	61.33140	17.60464	C_3	4	0	0.18000
ATOM	1669	HCD	PRO	A	192	42.50887	61.19374	17.83791	H_	1	0	0.00000
ATOM	1670	HCD	PRO	A	192	40.86343	61.16177	18.50466	H_	1	0	0.00000
ATOM	1671	N	PRO	A	193	41.37234	61.45505	12.99835	N_R	3	0	-0.29000
ATOM	1672	CA	PRO	A	193	40.06840	61.69507	12.41146	C_3	4	0	0.11000
ATOM	1673	HCA	PRO	A	193	39.47594	62.33640	13.06781	H_	1	0	0.00000
ATOM	1674	C	PRO	A	193	39.28919	60.49672	12.07681	C_2	3	0	0.51000
ATOM	1675	O	PRO	A	193	39.87008	59.42766	11.94773	O_2	1	2	-0.51000
ATOM	1676	CB	PRO	A	193	40.41711	62.49028	11.12841	C_3	4	0	0.00000
ATOM	1677	HCB	PRO	A	193	40.56218	63.54698	11.36887	H_	1	0	0.00000
ATOM	1678	HCB	PRO	A	193	39.65859	62.41414	10.34345	H_	1	0	0.00000
ATOM	1679	CG	PRO	A	193	41.75626	61.89063	10.68129	C_3	4	0	0.00000
ATOM	1680	HCG	PRO	A	193	42.35124	62.60695	10.10800	H_	1	0	0.00000
ATOM	1681	HCG	PRO	A	193	41.58745	60.99564	10.07472	H_	1	0	0.00000
ATOM	1682	CD	PRO	A	193	42.42507	61.51922	12.01596	C_3	4	0	0.18000
ATOM	1683	HCD	PRO	A	193	42.94295	60.55941	11.92892	H_	1	0	0.00000
ATOM	1684	HCD	PRO	A	193	43.14849	62.29434	12.28848	H_	1	0	0.00000
ATOM	1685	N	PHE	A	194	37.98625	60.58596	11.84752	N_R	3	0	-0.47000
ATOM	1686	HN	PHE	A	194	37.61958	61.46561	11.96375	H_A	1	0	0.31000
ATOM	1687	CA	PHE	A	194	37.11995	59.49531	11.42864	C_3	4	0	0.16000
ATOM	1688	HCA	PHE	A	194	37.61537	59.02694	10.57157	H_	1	0	0.00000
ATOM	1689	C	PHE	A	194	35.76654	59.90357	10.93433	C_R	3	0	0.51000
ATOM	1690	O	PHE	A	194	35.30387	61.03366	11.22888	O_2	1	2	-0.51000
ATOM	1691	CB	PHE	A	194	36.96577	58.40260	12.54106	C_3	4	0	0.00000
ATOM	1692	HCB	PHE	A	194	37.95187	58.02775	12.82072	H_	1	0	0.00000
ATOM	1693	HCB	PHE	A	194	36.43753	57.53462	12.13585	H_	1	0	0.00000
ATOM	1694	CG	PHE	A	194	36.24539	58.87602	13.75411	C_R	3	0	0.00000
ATOM	1695	CD1	PHE	A	194	34.83683	59.00603	13.74060	C_R	3	0	0.00000
ATOM	1696	HCD1	PHE	A	194	34.29537	58.75317	12.91522	H_	1	0	0.00000
ATOM	1697	CD2	PHE	A	194	36.94085	59.20329	14.94175	C_R	3	0	0.00000
ATOM	1698	HCD2	PHE	A	194	37.95419	59.09770	14.99169	H_	1	0	0.00000
ATOM	1699	CE1	PHE	A	194	34.14713	59.48957	14.85860	C_R	3	0	0.00000
ATOM	1700	HCE1	PHE	A	194	33.13645	59.60110	14.81584	H_	1	0	0.00000
ATOM	1701	CE2	PHE	A	194	36.24605	59.66943	16.07307	C_R	3	0	0.00000
ATOM	1702	HCE2	PHE	A	194	36.75462	59.90088	16.92594	H_	1	0	0.00000

ATOM	1703	CZ	PHE	A	194	34.84936	59.81467	16.02638	C_R	3	0	0.00000
ATOM	1704	HCZ	PHE	A	194	34.33702	60.15380	16.83624	H_	1	0	0.00000
ATOM	1705	N	ARG	A	195	35.02452	58.98332	10.25531	N_R	3	0	-0.47000
ATOM	1706	HN	ARG	A	195	35.48580	58.16409	10.01531	H_A	1	0	0.31000
ATOM	1707	CA	ARG	A	195	33.62278	59.03691	9.91331	C_3	4	0	0.16000
ATOM	1708	HCA	ARG	A	195	33.15086	59.89387	10.39481	H_	1	0	0.00000
ATOM	1709	C	ARG	A	195	32.92955	57.78259	10.36290	C_R	3	0	0.51000
ATOM	1710	O	ARG	A	195	33.30349	56.67969	9.87998	O_2	1	2	-0.51000
ATOM	1711	CB	ARG	A	195	33.40456	59.16996	8.37808	C_3	4	0	0.00000
ATOM	1712	HCB	ARG	A	195	32.33119	59.26635	8.18946	H_	1	0	0.00000
ATOM	1713	HCB	ARG	A	195	33.75696	58.25490	7.90478	H_	1	0	0.00000
ATOM	1714	CG	ARG	A	195	34.13113	60.32659	7.65466	C_3	4	0	0.00000
ATOM	1715	HCG	ARG	A	195	35.20865	60.16090	7.73970	H_	1	0	0.00000
ATOM	1716	HCG	ARG	A	195	33.90292	61.26815	8.14980	H_	1	0	0.00000
ATOM	1717	CD	ARG	A	195	33.71634	60.42430	6.15465	C_3	4	0	0.38000
ATOM	1718	HCD	ARG	A	195	32.91619	61.16175	6.05286	H_	1	0	0.00000
ATOM	1719	HCD	ARG	A	195	33.31645	59.47990	5.78065	H_	1	0	0.00000
ATOM	1720	NE	ARG	A	195	34.80435	60.84133	5.33717	N_R	3	0	-0.70000
ATOM	1721	HNE	ARG	A	195	34.88380	61.78629	5.16093	H_A	1	0	0.44000
ATOM	1722	CZ	ARG	A	195	35.75260	60.04379	4.83773	C_R	3	0	0.64000
ATOM	1723	NH1	ARG	A	195	35.79815	58.71989	4.93470	N_R	3	0	-0.80000
ATOM	1724	HNH1	ARG	A	195	36.56040	58.24988	4.57818	H_A	1	0	0.46000
ATOM	1725	HNH1	ARG	A	195	35.08628	58.20271	5.31418	H_A	1	0	0.46000
ATOM	1726	NH2	ARG	A	195	36.75124	60.61555	4.18587	N_R	3	0	-0.80000
ATOM	1727	HNH2	ARG	A	195	37.45457	60.07043	3.81100	H_A	1	0	0.46000
ATOM	1728	HNH2	ARG	A	195	36.77278	61.57484	4.08013	H_A	1	0	0.46000
ATOM	1729	N	ILE	A	196	31.89292	57.80241	11.24256	N_R	3	0	-0.47000
ATOM	1730	HN	ILE	A	196	31.63809	58.65583	11.59761	H_A	1	0	0.31000
ATOM	1731	CA	ILE	A	196	31.14824	56.63888	11.68260	C_3	4	0	0.16000
ATOM	1732	HCA	ILE	A	196	31.33298	55.84082	10.96393	H_	1	0	0.00000
ATOM	1733	C	ILE	A	196	29.67159	56.81021	11.67374	C_R	3	0	0.51000
ATOM	1734	O	ILE	A	196	29.17651	57.91778	11.98411	O_2	1	2	-0.51000
ATOM	1735	CB	ILE	A	196	31.62157	56.09958	13.07424	C_3	4	0	0.00000
ATOM	1736	HCB	ILE	A	196	31.02421	55.20648	13.28162	H_	1	0	0.00000
ATOM	1737	CG1	ILE	A	196	31.43992	57.08785	14.27792	C_3	4	0	0.00000
ATOM	1738	HCG1	ILE	A	196	31.33422	58.10650	13.90475	H_	1	0	0.00000
ATOM	1739	HCG1	ILE	A	196	32.32463	57.08551	14.91981	H_	1	0	0.00000
ATOM	1740	CG2	ILE	A	196	33.07346	55.57014	12.99310	C_3	4	0	0.00000
ATOM	1741	HCG2	ILE	A	196	33.78573	56.36907	12.79836	H_	1	0	0.00000
ATOM	1742	HCG2	ILE	A	196	33.31309	55.09658	13.93274	H_	1	0	0.00000
ATOM	1743	HCG2	ILE	A	196	33.16401	54.81775	12.22019	H_	1	0	0.00000
ATOM	1744	CD1	ILE	A	196	30.23410	56.75572	15.19048	C_3	4	0	0.00000
ATOM	1745	HCD1	ILE	A	196	30.34722	55.75726	15.61357	H_	1	0	0.00000
ATOM	1746	HCD1	ILE	A	196	30.17538	57.46939	16.01110	H_	1	0	0.00000
ATOM	1747	HCD1	ILE	A	196	29.30858	56.80028	14.62039	H_	1	0	0.00000
ATOM	1748	N	VAL	A	197	28.89002	55.74281	11.37022	N_R	3	0	-0.47000
ATOM	1749	HN	VAL	A	197	29.36857	54.94809	11.13802	H_A	1	0	0.31000
ATOM	1750	CA	VAL	A	197	27.45038	55.68170	11.38668	C_3	4	0	0.16000
ATOM	1751	HCA	VAL	A	197	27.09405	56.62978	11.78749	H_	1	0	0.00000
ATOM	1752	C	VAL	A	197	26.95166	54.61717	12.31593	C_R	3	0	0.51000
ATOM	1753	O	VAL	A	197	27.48369	53.48163	12.33641	O_2	1	2	-0.51000
ATOM	1754	CB	VAL	A	197	26.86562	55.60393	9.93118	C_3	4	0	0.00000
ATOM	1755	HCB	VAL	A	197	27.31192	56.42977	9.36702	H_	1	0	0.00000
ATOM	1756	CG1	VAL	A	197	27.22164	54.30567	9.15750	C_3	4	0	0.00000
ATOM	1757	HCG1	VAL	A	197	26.76189	53.44039	9.63337	H_	1	0	0.00000
ATOM	1758	HCG1	VAL	A	197	26.85779	54.36257	8.13026	H_	1	0	0.00000
ATOM	1759	HCG1	VAL	A	197	28.30143	54.16796	9.12016	H_	1	0	0.00000

ATOM	1760	CG2	VAL	A	197	25.33163	55.85004	9.88779	C_3	4	0	0.00000
ATOM	1761	HCG2	VAL	A	197	25.09234	56.82974	10.30382	H_	1	0	0.00000
ATOM	1762	HCG2	VAL	A	197	24.97177	55.82897	8.85779	H_	1	0	0.00000
ATOM	1763	HCG2	VAL	A	197	24.80034	55.08616	10.45649	H_	1	0	0.00000
ATOM	1764	N	VAL	A	198	25.91908	54.89452	13.14563	N_R	3	0	-0.47000
ATOM	1765	HN	VAL	A	198	25.59643	55.78545	13.09734	H_A	1	0	0.31000
ATOM	1766	CA	VAL	A	198	25.27994	54.03392	14.10012	C_3	4	0	0.16000
ATOM	1767	HCA	VAL	A	198	25.80304	53.08423	14.11793	H_	1	0	0.00000
ATOM	1768	C	VAL	A	198	23.85450	53.81653	13.69508	C_R	3	0	0.51000
ATOM	1769	O	VAL	A	198	23.09088	54.81247	13.77827	O_2	1	2	-0.51000
ATOM	1770	CB	VAL	A	198	25.35365	54.61226	15.55812	C_3	4	0	0.00000
ATOM	1771	HCB	VAL	A	198	24.70091	55.47999	15.61232	H_	1	0	0.00000
ATOM	1772	CG1	VAL	A	198	24.81111	53.61558	16.62367	C_3	4	0	0.00000
ATOM	1773	HCG1	VAL	A	198	25.40710	52.70444	16.64418	H_	1	0	0.00000
ATOM	1774	HCG1	VAL	A	198	24.83045	54.06896	17.61507	H_	1	0	0.00000
ATOM	1775	HCG1	VAL	A	198	23.77633	53.34596	16.40950	H_	1	0	0.00000
ATOM	1776	CG2	VAL	A	198	26.76942	55.12347	15.93720	C_3	4	0	0.00000
ATOM	1777	HCG2	VAL	A	198	27.08265	55.91455	15.25544	H_	1	0	0.00000
ATOM	1778	HCG2	VAL	A	198	26.76568	55.54844	16.93975	H_	1	0	0.00000
ATOM	1779	HCG2	VAL	A	198	27.49634	54.31336	15.89685	H_	1	0	0.00000
ATOM	1780	N	PRO	A	199	23.34248	52.62003	13.27951	N_R	3	0	-0.29000
ATOM	1781	CA	PRO	A	199	21.93611	52.29319	13.32309	C_3	4	0	0.11000
ATOM	1782	HCA	PRO	A	199	21.31138	53.13718	13.01597	H_	1	0	0.00000
ATOM	1783	C	PRO	A	199	21.53184	51.82791	14.65632	C_2	3	0	0.51000
ATOM	1784	O	PRO	A	199	22.22599	50.97119	15.19345	O_2	1	2	-0.51000
ATOM	1785	CB	PRO	A	199	21.81763	51.18273	12.25365	C_3	4	0	0.00000
ATOM	1786	HCB	PRO	A	199	21.64558	51.63235	11.27204	H_	1	0	0.00000
ATOM	1787	HCB	PRO	A	199	21.01001	50.47871	12.46634	H_	1	0	0.00000
ATOM	1788	CG	PRO	A	199	23.18028	50.47457	12.25103	C_3	4	0	0.00000
ATOM	1789	HCG	PRO	A	199	23.46458	50.15926	11.24352	H_	1	0	0.00000
ATOM	1790	HCG	PRO	A	199	23.14752	49.59441	12.89873	H_	1	0	0.00000
ATOM	1791	CD	PRO	A	199	24.15094	51.52667	12.81714	C_3	4	0	0.18000
ATOM	1792	HCD	PRO	A	199	24.72990	51.09099	13.63639	H_	1	0	0.00000
ATOM	1793	HCD	PRO	A	199	24.83219	51.86564	12.03049	H_	1	0	0.00000
ATOM	1794	N	GLY	A	200	20.47788	52.30487	15.30715	N_R	3	0	-0.47000
ATOM	1795	HN	GLY	A	200	20.00503	53.04539	14.91932	H_A	1	0	0.31000
ATOM	1796	CA	GLY	A	200	20.06565	51.84280	16.60902	C_3	4	0	0.16000
ATOM	1797	HCA	GLY	A	200	20.62643	52.41370	17.34786	H_	1	0	0.00000
ATOM	1798	HCA	GLY	A	200	20.35081	50.79538	16.74375	H_	1	0	0.00000
ATOM	1799	C	GLY	A	200	18.63009	51.96858	16.95828	C_R	3	0	0.51000
ATOM	1800	O	GLY	A	200	18.07503	53.09013	16.96197	O_2	1	2	-0.51000
ATOM	1801	N	ARG	A	201	17.96897	50.87242	17.40306	N_R	3	0	-0.47000
ATOM	1802	HN	ARG	A	201	18.41813	50.02433	17.26649	H_A	1	0	0.31000
ATOM	1803	CA	ARG	A	201	16.71385	50.83258	18.10928	C_3	4	0	0.16000
ATOM	1804	HCA	ARG	A	201	15.94447	51.28124	17.48588	H_	1	0	0.00000
ATOM	1805	C	ARG	A	201	16.79600	51.55290	19.41532	C_R	3	0	0.51000
ATOM	1806	O	ARG	A	201	17.72857	51.26422	20.19443	O_2	1	2	-0.51000
ATOM	1807	CB	ARG	A	201	16.33515	49.33511	18.29299	C_3	4	0	0.00000
ATOM	1808	HCB	ARG	A	201	17.09896	48.84710	18.90093	H_	1	0	0.00000
ATOM	1809	HCB	ARG	A	201	16.35667	48.85048	17.31385	H_	1	0	0.00000
ATOM	1810	CG	ARG	A	201	14.93633	49.08830	18.92935	C_3	4	0	0.00000
ATOM	1811	HCG	ARG	A	201	14.20119	49.73661	18.44362	H_	1	0	0.00000
ATOM	1812	HCG	ARG	A	201	14.96904	49.35710	19.98814	H_	1	0	0.00000
ATOM	1813	CD	ARG	A	201	14.44952	47.62378	18.79004	C_3	4	0	0.38000
ATOM	1814	HCD	ARG	A	201	14.32718	47.39027	17.72957	H_	1	0	0.00000
ATOM	1815	HCD	ARG	A	201	13.47593	47.52196	19.27487	H_	1	0	0.00000
ATOM	1816	NE	ARG	A	201	15.35213	46.70160	19.39175	N_R	3	0	-0.70000

ATOM	1817	HNE	ARG	A	201	15.99757	47.03553	20.01243	H_A	1	0	0.44000
ATOM	1818	CZ	ARG	A	201	15.42791	45.38961	19.19607	C_R	3	0	0.64000
ATOM	1819	NH1	ARG	A	201	14.71397	44.72376	18.30066	N_R	3	0	-0.80000
ATOM	1820	HNH1	ARG	A	201	14.83361	43.77168	18.20658	H_A	1	0	0.46000
ATOM	1821	HNH1	ARG	A	201	14.08561	45.19868	17.74432	H_A	1	0	0.46000
ATOM	1822	NH2	ARG	A	201	16.28532	44.71550	19.94229	N_R	3	0	-0.80000
ATOM	1823	HNH2	ARG	A	201	16.40816	43.76941	19.82222	H_A	1	0	0.46000
ATOM	1824	HNH2	ARG	A	201	16.78439	45.16917	20.62853	H_A	1	0	0.46000
ATOM	1825	N	VAL	A	202	15.92097	52.52548	19.75317	N_R	3	0	-0.47000
ATOM	1826	HN	VAL	A	202	15.24251	52.71602	19.12152	H_A	1	0	0.31000
ATOM	1827	CA	VAL	A	202	15.86680	53.32838	20.94621	C_3	4	0	0.16000
ATOM	1828	HCA	VAL	A	202	16.54160	52.89165	21.68672	H_	1	0	0.00000
ATOM	1829	C	VAL	A	202	14.49759	53.32273	21.55880	C_R	3	0	0.51000
ATOM	1830	O	VAL	A	202	13.48534	53.02656	20.87386	O_2	1	2	-0.51000
ATOM	1831	CB	VAL	A	202	16.36250	54.78691	20.65764	C_3	4	0	0.00000
ATOM	1832	HCB	VAL	A	202	16.33930	55.33998	21.60221	H_	1	0	0.00000
ATOM	1833	CG1	VAL	A	202	17.83761	54.81672	20.16532	C_3	4	0	0.00000
ATOM	1834	HCG1	VAL	A	202	17.96336	54.21568	19.26981	H_	1	0	0.00000
ATOM	1835	HCG1	VAL	A	202	18.14307	55.83019	19.92219	H_	1	0	0.00000
ATOM	1836	HCG1	VAL	A	202	18.50812	54.43747	20.93272	H_	1	0	0.00000
ATOM	1837	CG2	VAL	A	202	15.45650	55.56317	19.66352	C_3	4	0	0.00000
ATOM	1838	HCG2	VAL	A	202	14.42308	55.57789	20.00933	H_	1	0	0.00000
ATOM	1839	HCG2	VAL	A	202	15.79079	56.59703	19.58454	H_	1	0	0.00000
ATOM	1840	HCG2	VAL	A	202	15.49185	55.10805	18.67358	H_	1	0	0.00000
ATOM	1841	N	PHE	A	203	14.38217	53.61317	22.87877	N_R	3	0	-0.47000
ATOM	1842	HN	PHE	A	203	15.18976	53.86137	23.32462	H_A	1	0	0.31000
ATOM	1843	CA	PHE	A	203	13.22426	53.44332	23.71665	C_3	4	0	0.16000
ATOM	1844	HCA	PHE	A	203	12.36935	53.11226	23.12480	H_	1	0	0.00000
ATOM	1845	C	PHE	A	203	12.84960	54.68509	24.46008	C_R	3	0	0.51000
ATOM	1846	O	PHE	A	203	13.72751	55.33415	25.06984	O_2	1	2	-0.51000
ATOM	1847	CB	PHE	A	203	13.53051	52.32472	24.75654	C_3	4	0	0.00000
ATOM	1848	HCB	PHE	A	203	12.63989	52.17341	25.37027	H_	1	0	0.00000
ATOM	1849	HCB	PHE	A	203	14.31677	52.67151	25.43139	H_	1	0	0.00000
ATOM	1850	CG	PHE	A	203	13.94056	51.01686	24.16952	C_R	3	0	0.00000
ATOM	1851	CD1	PHE	A	203	15.26051	50.81820	23.69758	C_R	3	0	0.00000
ATOM	1852	HCD1	PHE	A	203	15.95536	51.56354	23.77284	H_	1	0	0.00000
ATOM	1853	CD2	PHE	A	203	13.03013	49.93731	24.09338	C_R	3	0	0.00000
ATOM	1854	HCD2	PHE	A	203	12.07794	50.03989	24.44894	H_	1	0	0.00000
ATOM	1855	CE1	PHE	A	203	15.64587	49.59436	23.12543	C_R	3	0	0.00000
ATOM	1856	HCE1	PHE	A	203	16.59708	49.47845	22.77359	H_	1	0	0.00000
ATOM	1857	CE2	PHE	A	203	13.41841	48.70553	23.53465	C_R	3	0	0.00000
ATOM	1858	HCE2	PHE	A	203	12.74925	47.93450	23.48392	H_	1	0	0.00000
ATOM	1859	CZ	PHE	A	203	14.72454	48.53604	23.04335	C_R	3	0	0.00000
ATOM	1860	HCZ	PHE	A	203	15.00325	47.64352	22.63099	H_	1	0	0.00000
ATOM	1861	N	ARG	A	204	11.56965	55.11201	24.54897	N_R	3	0	-0.47000
ATOM	1862	HN	ARG	A	204	10.94088	54.63353	24.01243	H_A	1	0	0.31000
ATOM	1863	CA	ARG	A	204	11.09746	56.23156	25.33234	C_3	4	0	0.16000
ATOM	1864	HCA	ARG	A	204	11.78927	56.39317	26.16511	H_	1	0	0.00000
ATOM	1865	C	ARG	A	204	9.75356	56.00100	25.92575	C_R	3	0	0.51000
ATOM	1866	O	ARG	A	204	8.92575	55.32558	25.26906	O_2	1	2	-0.51000
ATOM	1867	CB	ARG	A	204	11.09105	57.49323	24.42645	C_3	4	0	0.00000
ATOM	1868	HCB	ARG	A	204	10.22571	57.47377	23.75805	H_	1	0	0.00000
ATOM	1869	HCB	ARG	A	204	11.98312	57.46419	23.79611	H_	1	0	0.00000
ATOM	1870	CG	ARG	A	204	11.09595	58.82413	25.22813	C_3	4	0	0.00000
ATOM	1871	HCG	ARG	A	204	11.88434	58.79547	25.98200	H_	1	0	0.00000
ATOM	1872	HCG	ARG	A	204	10.13731	58.93338	25.73829	H_	1	0	0.00000
ATOM	1873	CD	ARG	A	204	11.33521	60.06833	24.35002	C_3	4	0	0.38000

ATOM	1874	HCD	ARG	A	204	11.38771	60.95419	24.98528	H_	1	0	0.00000
ATOM	1875	HCD	ARG	A	204	10.48800	60.17703	23.66753	H_	1	0	0.00000
ATOM	1876	NE	ARG	A	204	12.58024	59.94864	23.65279	N_R	3	0	-0.70000
ATOM	1877	HNE	ARG	A	204	13.24301	59.39189	24.06758	H_A	1	0	0.44000
ATOM	1878	CZ	ARG	A	204	12.87897	60.57390	22.51046	C_R	3	0	0.64000
ATOM	1879	NH1	ARG	A	204	12.03783	61.40327	21.90603	N_R	3	0	-0.80000
ATOM	1880	HNH1	ARG	A	204	12.28186	61.83262	21.08070	H_A	1	0	0.46000
ATOM	1881	HNH1	ARG	A	204	11.16874	61.57353	22.30570	H_A	1	0	0.46000
ATOM	1882	NH2	ARG	A	204	14.06591	60.37700	21.95212	N_R	3	0	-0.80000
ATOM	1883	HNH2	ARG	A	204	14.35782	60.89051	21.19099	H_A	1	0	0.46000
ATOM	1884	HNH2	ARG	A	204	14.67269	59.73518	22.31422	H_A	1	0	0.46000
ATOM	1885	N	PHE	A	205	9.41008	56.54456	27.12584	N_R	3	0	-0.47000
ATOM	1886	HN	PHE	A	205	10.08182	57.07713	27.55961	H_A	1	0	0.31000
ATOM	1887	CA	PHE	A	205	8.12003	56.42615	27.77657	C_3	4	0	0.16000
ATOM	1888	HCA	PHE	A	205	7.76662	55.40211	27.62208	H_	1	0	0.00000
ATOM	1889	C	PHE	A	205	7.08932	57.32966	27.16415	C_R	3	0	0.51000
ATOM	1890	O	PHE	A	205	6.41392	58.14492	27.83326	O_2	1	2	-0.51000
ATOM	1891	CB	PHE	A	205	8.31904	56.59945	29.31664	C_3	4	0	0.00000
ATOM	1892	HCB	PHE	A	205	8.66894	57.61305	29.51217	H_	1	0	0.00000
ATOM	1893	HCB	PHE	A	205	9.11765	55.93085	29.65169	H_	1	0	0.00000
ATOM	1894	CG	PHE	A	205	7.11010	56.30833	30.14074	C_R	3	0	0.00000
ATOM	1895	CD1	PHE	A	205	6.44556	57.33070	30.86186	C_R	3	0	0.00000
ATOM	1896	HCD1	PHE	A	205	6.78089	58.29605	30.82181	H_	1	0	0.00000
ATOM	1897	CD2	PHE	A	205	6.60606	54.98959	30.22828	C_R	3	0	0.00000
ATOM	1898	HCD2	PHE	A	205	7.06296	54.23122	29.72286	H_	1	0	0.00000
ATOM	1899	CE1	PHE	A	205	5.30903	57.04117	31.64095	C_R	3	0	0.00000
ATOM	1900	HCE1	PHE	A	205	4.83459	57.78893	32.15227	H_	1	0	0.00000
ATOM	1901	CE2	PHE	A	205	5.47484	54.69666	31.01168	C_R	3	0	0.00000
ATOM	1902	HCE2	PHE	A	205	5.12625	53.73705	31.06798	H_	1	0	0.00000
ATOM	1903	CZ	PHE	A	205	4.82489	55.72351	31.71759	C_R	3	0	0.00000
ATOM	1904	HCZ	PHE	A	205	4.00169	55.51190	32.28619	H_	1	0	0.00000
ATOM	1905	N	GLU	A	206	6.87545	57.19157	25.84090	N_R	3	0	-0.47000
ATOM	1906	HN	GLU	A	206	7.45136	56.53750	25.45896	H_A	1	0	0.31000
ATOM	1907	CA	GLU	A	206	5.95512	57.88586	24.98146	C_3	4	0	0.16000
ATOM	1908	HCA	GLU	A	206	5.71747	58.85910	25.41883	H_	1	0	0.00000
ATOM	1909	C	GLU	A	206	4.68630	57.11264	24.80975	C_R	3	0	0.51000
ATOM	1910	O	GLU	A	206	4.59792	55.93554	25.23982	O_2	1	2	-0.51000
ATOM	1911	CB	GLU	A	206	6.69853	58.08983	23.61982	C_3	4	0	0.00000
ATOM	1912	HCB	GLU	A	206	6.65057	57.15074	23.06867	H_	1	0	0.00000
ATOM	1913	HCB	GLU	A	206	7.75945	58.29147	23.80040	H_	1	0	0.00000
ATOM	1914	CG	GLU	A	206	6.16802	59.20742	22.68244	C_3	4	0	-0.10000
ATOM	1915	HCG	GLU	A	206	5.10255	59.07199	22.49964	H_	1	0	0.00000
ATOM	1916	HCG	GLU	A	206	6.66252	59.12043	21.71127	H_	1	0	0.00000
ATOM	1917	CD	GLU	A	206	6.42321	60.56305	23.19733	C_R	3	0	0.62000
ATOM	1918	OE1	GLU	A	206	7.57139	61.05903	23.12491	O_2	1	2	-0.76000
ATOM	1919	OE2	GLU	A	206	5.47939	61.24017	23.66496	O_2	1	2	-0.76000
ATOM	1920	N	GLN	A	207	3.61995	57.65397	24.16995	N_R	3	0	-0.47000
ATOM	1921	HN	GLN	A	207	3.71655	58.57720	23.88610	H_A	1	0	0.31000
ATOM	1922	CA	GLN	A	207	2.40391	56.95458	23.81381	C_3	4	0	0.16000
ATOM	1923	HCA	GLN	A	207	2.25819	56.14400	24.53396	H_	1	0	0.00000
ATOM	1924	C	GLN	A	207	2.47794	56.33287	22.48333	C_2	3	0	0.51000
ATOM	1925	O	GLN	A	207	3.38103	56.62588	21.71337	O_2	1	2	-0.51000
ATOM	1926	CB	GLN	A	207	1.19875	57.93274	23.99437	C_3	4	0	0.00000
ATOM	1927	HCB	GLN	A	207	1.29978	58.75326	23.27723	H_	1	0	0.00000
ATOM	1928	HCB	GLN	A	207	1.26225	58.37284	24.99500	H_	1	0	0.00000
ATOM	1929	CG	GLN	A	207	-0.22894	57.32943	23.84080	C_3	4	0	0.00000
ATOM	1930	HCG	GLN	A	207	-0.42097	57.14664	22.78073	H_	1	0	0.00000

ATOM	1931	HCG	GLN	A	207	-0.96671	58.06462	24.17133	H_	1	0	0.00000
ATOM	1932	CD	GLN	A	207	-0.44289	56.08188	24.60337	C_R	3	0	0.55000
ATOM	1933	OE1	GLN	A	207	-0.56615	54.98790	24.01078	O_2	1	2	-0.55000
ATOM	1934	NE2	GLN	A	207	-0.48107	56.05346	25.94044	N_R	3	0	-0.60000
ATOM	1935	HNE2	GLN	A	207	-0.60165	55.20422	26.39047	H_A	1	0	0.30000
ATOM	1936	HNE2	GLN	A	207	-0.37704	56.86909	26.45153	H_A	1	0	0.30000
ATOM	1937	N	THR	A	208	1.58736	55.41940	22.12688	N_R	3	0	-0.47000
ATOM	1938	HN	THR	A	208	0.87656	55.26213	22.74414	H_A	1	0	0.31000
ATOM	1939	CA	THR	A	208	1.59372	54.59702	20.93718	C_3	4	0	0.16000
ATOM	1940	HCA	THR	A	208	2.53145	54.70938	20.38752	H_	1	0	0.00000
ATOM	1941	C	THR	A	208	0.48231	55.01503	20.02411	C_R	3	0	0.51000
ATOM	1942	O	THR	A	208	-0.61146	54.39386	20.01899	O_2	1	2	-0.51000
ATOM	1943	CB	THR	A	208	1.54010	53.09881	21.39175	C_3	4	0	0.23000
ATOM	1944	HC	THR	A	208	0.62292	52.92898	21.96423	H_	1	0	0.00000
ATOM	1945	OG1	THR	A	208	2.63403	52.77762	22.25678	O_3	2	2	-0.66000
ATOM	1946	HOG1	THR	A	208	2.66132	53.50240	22.91292	H_A	1	0	0.43000
ATOM	1947	CG2	THR	A	208	1.58471	52.07993	20.22937	C_3	4	0	0.00000
ATOM	1948	HCG2	THR	A	208	2.47390	52.23863	19.61826	H_	1	0	0.00000
ATOM	1949	HCG2	THR	A	208	1.60287	51.06072	20.61925	H_	1	0	0.00000
ATOM	1950	HCG2	THR	A	208	0.69964	52.18545	19.60739	H_	1	0	0.00000
ATOM	1951	N	ASP	A	209	0.66974	56.03635	19.14797	N_R	3	0	-0.47000
ATOM	1952	HN	ASP	A	209	1.57422	56.35256	19.09060	H_A	1	0	0.31000
ATOM	1953	CA	ASP	A	209	-0.27288	56.58196	18.19163	C_3	4	0	0.16000
ATOM	1954	HCA	ASP	A	209	-1.18526	55.99583	18.24953	H_	1	0	0.00000
ATOM	1955	C	ASP	A	209	0.21453	56.41815	16.79360	C_R	3	0	0.51000
ATOM	1956	O	ASP	A	209	1.41572	56.13599	16.59715	O_2	1	2	-0.51000
ATOM	1957	CB	ASP	A	209	-0.72635	58.03933	18.51354	C_3	4	0	-0.10000
ATOM	1958	HC	ASP	A	209	-0.86333	58.13400	19.59474	H_	1	0	0.00000
ATOM	1959	HC	ASP	A	209	-1.70795	58.20067	18.05837	H_	1	0	0.00000
ATOM	1960	CG	ASP	A	209	0.13063	59.13645	18.01720	C_R	3	0	0.62000
ATOM	1961	OD1	ASP	A	209	0.43694	59.21430	16.80383	O_2	1	2	-0.76000
ATOM	1962	OD2	ASP	A	209	0.47200	60.06845	18.77539	O_2	1	2	-0.76000
ATOM	1963	N	ALA	A	210	-0.60802	56.61720	15.73377	N_R	3	0	-0.47000
ATOM	1964	HN	ALA	A	210	-1.49823	56.93597	15.93375	H_A	1	0	0.31000
ATOM	1965	CA	ALA	A	210	-0.29016	56.35665	14.35239	C_3	4	0	0.16000
ATOM	1966	HCA	ALA	A	210	-0.18090	55.27226	14.27086	H_	1	0	0.00000
ATOM	1967	C	ALA	A	210	0.96118	56.96820	13.81483	C_R	3	0	0.51000
ATOM	1968	O	ALA	A	210	1.45017	56.46383	12.77154	O_2	1	2	-0.51000
ATOM	1969	CB	ALA	A	210	-1.49864	56.75878	13.47038	C_3	4	0	0.00000
ATOM	1970	HC	ALA	A	210	-1.69511	57.82899	13.55903	H_	1	0	0.00000
ATOM	1971	HC	ALA	A	210	-1.30961	56.52325	12.42057	H_	1	0	0.00000
ATOM	1972	HC	ALA	A	210	-2.39048	56.21232	13.78253	H_	1	0	0.00000
ATOM	1973	N	THR	A	211	1.57327	58.01802	14.41844	N_R	3	0	-0.47000
ATOM	1974	HN	THR	A	211	1.15605	58.39778	15.19929	H_A	1	0	0.31000
ATOM	1975	CA	THR	A	211	2.82834	58.60402	14.01853	C_3	4	0	0.16000
ATOM	1976	HCA	THR	A	211	3.27962	58.02327	13.21059	H_	1	0	0.00000
ATOM	1977	C	THR	A	211	3.83620	58.61674	15.11273	C_R	3	0	0.51000
ATOM	1978	O	THR	A	211	4.97538	59.06420	14.83173	O_2	1	2	-0.51000
ATOM	1979	CB	THR	A	211	2.60775	60.05248	13.47685	C_3	4	0	0.23000
ATOM	1980	HC	THR	A	211	3.56980	60.46062	13.15252	H_	1	0	0.00000
ATOM	1981	OG1	THR	A	211	2.09719	60.94456	14.47152	O_3	2	2	-0.66000
ATOM	1982	HOG1	THR	A	211	2.74885	60.95782	15.19728	H_A	1	0	0.43000
ATOM	1983	CG2	THR	A	211	1.66701	60.10185	12.24619	C_3	4	0	0.00000
ATOM	1984	HCG2	THR	A	211	0.67111	59.74039	12.50487	H_	1	0	0.00000
ATOM	1985	HCG2	THR	A	211	1.57625	61.12803	11.88614	H_	1	0	0.00000
ATOM	1986	HCG2	THR	A	211	2.06759	59.48698	11.43865	H_	1	0	0.00000
ATOM	1987	N	HSD	A	212	3.56450	58.17064	16.36470	N_R	3	0	-0.47000

ATOM	1988	HN	HSD	A	212	2.75723	57.65949	16.48519	H__A	1	0	0.31000
ATOM	1989	CA	HSD	A	212	4.40217	58.35583	17.52452	C_3	4	0	0.16000
ATOM	1990	HCA	HSD	A	212	5.41150	58.66239	17.23155	H__	1	0	0.00000
ATOM	1991	C	HSD	A	212	4.50282	57.06932	18.26002	C_R	3	0	0.51000
ATOM	1992	O	HSD	A	212	3.45016	56.56569	18.71538	O_2	1	2	-0.51000
ATOM	1993	CB	HSD	A	212	3.84768	59.45848	18.47519	C_3	4	0	0.10000
ATOM	1994	HCB	HSD	A	212	4.50546	59.52605	19.34692	H__	1	0	0.00000
ATOM	1995	HCB	HSD	A	212	2.86376	59.16272	18.83696	H__	1	0	0.00000
ATOM	1996	CG	HSD	A	212	3.74848	60.82014	17.90045	C_R	3	0	0.22000
ATOM	1997	ND1	HSD	A	212	4.07364	61.22766	16.65469	N_R	2	1	-0.70000
ATOM	1998	CD2	HSD	A	212	3.31751	61.94325	18.60052	C_R	3	0	0.04000
ATOM	1999	HCD2	HSD	A	212	2.99123	61.97219	19.56812	H__	1	0	0.00000
ATOM	2000	CE1	HSD	A	212	3.88329	62.55476	16.60474	C_R	3	0	0.38000
ATOM	2001	HCE1	HSD	A	212	4.06499	63.13998	15.78877	H__	1	0	0.00000
ATOM	2002	NE2	HSD	A	212	3.41940	62.99152	17.77880	N_R	3	0	-0.36000
ATOM	2003	HNE2	HSD	A	212	3.19938	63.90614	17.99949	H__A	1	0	0.32000
ATOM	2004	N	GLU	A	213	5.69850	56.46143	18.44180	N_R	3	0	-0.47000
ATOM	2005	HN	GLU	A	213	6.47638	56.91822	18.09002	H__A	1	0	0.31000
ATOM	2006	CA	GLU	A	213	5.93633	55.21804	19.13206	C_3	4	0	0.16000
ATOM	2007	HCA	GLU	A	213	4.98584	54.79829	19.47238	H__	1	0	0.00000
ATOM	2008	C	GLU	A	213	6.73945	55.43096	20.36639	C_R	3	0	0.51000
ATOM	2009	O	GLU	A	213	7.29956	56.52397	20.61675	O_2	1	2	-0.51000
ATOM	2010	CB	GLU	A	213	6.62761	54.18410	18.16964	C_3	4	0	0.00000
ATOM	2011	HCB	GLU	A	213	7.59132	53.85827	18.56595	H__	1	0	0.00000
ATOM	2012	HCB	GLU	A	213	6.86140	54.67536	17.22131	H__	1	0	0.00000
ATOM	2013	CG	GLU	A	213	5.78291	52.91881	17.83198	C_3	4	0	-0.10000
ATOM	2014	HCG	GLU	A	213	6.23647	52.42631	16.96763	H__	1	0	0.00000
ATOM	2015	HCG	GLU	A	213	4.78532	53.24624	17.53860	H__	1	0	0.00000
ATOM	2016	CD	GLU	A	213	5.63646	51.88502	18.88226	C_R	3	0	0.62000
ATOM	2017	OE1	GLU	A	213	6.28362	51.89127	19.95390	O_2	1	2	-0.76000
ATOM	2018	OE2	GLU	A	213	4.84043	50.93555	18.70067	O_2	1	2	-0.76000
ATOM	2019	N	ALA	A	214	6.90680	54.36079	21.16703	N_R	3	0	-0.47000
ATOM	2020	HN	ALA	A	214	6.56528	53.54263	20.81619	H__A	1	0	0.31000
ATOM	2021	CA	ALA	A	214	7.65256	54.23534	22.37539	C_3	4	0	0.16000
ATOM	2022	HCA	ALA	A	214	7.96131	55.21832	22.74054	H__	1	0	0.00000
ATOM	2023	C	ALA	A	214	8.86353	53.42182	22.10803	C_R	3	0	0.51000
ATOM	2024	O	ALA	A	214	9.87773	53.62405	22.81127	O_2	1	2	-0.51000
ATOM	2025	CB	ALA	A	214	6.76455	53.55701	23.44531	C_3	4	0	0.00000
ATOM	2026	HCB	ALA	A	214	6.43594	52.57251	23.10551	H__	1	0	0.00000
ATOM	2027	HCB	ALA	A	214	7.31175	53.43404	24.38102	H__	1	0	0.00000
ATOM	2028	HCB	ALA	A	214	5.88325	54.16921	23.63870	H__	1	0	0.00000
ATOM	2029	N	VAL	A	215	8.88531	52.48513	21.12720	N_R	3	0	-0.47000
ATOM	2030	HN	VAL	A	215	8.04516	52.29231	20.69972	H__A	1	0	0.31000
ATOM	2031	CA	VAL	A	215	10.04430	51.77708	20.65118	C_3	4	0	0.16000
ATOM	2032	HCA	VAL	A	215	10.93199	52.08619	21.21188	H__	1	0	0.00000
ATOM	2033	C	VAL	A	215	10.24068	52.15698	19.22311	C_R	3	0	0.51000
ATOM	2034	O	VAL	A	215	9.32964	51.89672	18.40259	O_2	1	2	-0.51000
ATOM	2035	CB	VAL	A	215	9.89217	50.22901	20.83520	C_3	4	0	0.00000
ATOM	2036	HCB	VAL	A	215	9.12612	49.86661	20.14182	H__	1	0	0.00000
ATOM	2037	CG1	VAL	A	215	11.22173	49.49150	20.50112	C_3	4	0	0.00000
ATOM	2038	HCG1	VAL	A	215	12.02171	49.81871	21.16589	H__	1	0	0.00000
ATOM	2039	HCG1	VAL	A	215	11.09883	48.41289	20.60765	H__	1	0	0.00000
ATOM	2040	HCG1	VAL	A	215	11.52742	49.69733	19.47531	H__	1	0	0.00000
ATOM	2041	CG2	VAL	A	215	9.41599	49.83960	22.26290	C_3	4	0	0.00000
ATOM	2042	HCG2	VAL	A	215	8.42928	50.25906	22.46693	H__	1	0	0.00000
ATOM	2043	HCG2	VAL	A	215	9.33930	48.75512	22.35786	H__	1	0	0.00000
ATOM	2044	HCG2	VAL	A	215	10.11219	50.21141	23.01422	H__	1	0	0.00000

ATOM	2045	N	PHE	A	216	11.36927	52.77665	18.79968	N_R	3	0	-0.47000
ATOM	2046	HN	PHE	A	216	12.06252	52.91277	19.45400	H_A	1	0	0.31000
ATOM	2047	CA	PHE	A	216	11.58200	53.25922	17.44672	C_3	4	0	0.16000
ATOM	2048	HCA	PHE	A	216	11.14737	52.52641	16.76353	H	1	0	0.00000
ATOM	2049	C	PHE	A	216	13.02056	53.31370	17.07558	C_R	3	0	0.51000
ATOM	2050	O	PHE	A	216	13.86550	53.15358	17.97385	O_2	1	2	-0.51000
ATOM	2051	CB	PHE	A	216	10.86562	54.62257	17.20773	C_3	4	0	0.00000
ATOM	2052	HC	PHE	A	216	9.78591	54.47201	17.27839	H	1	0	0.00000
ATOM	2053	CB	PHE	A	216	11.04543	54.95318	16.18203	H	1	0	0.00000
ATOM	2054	CG	PHE	A	216	11.26867	55.69600	18.15611	C_R	3	0	0.00000
ATOM	2055	CD1	PHE	A	216	10.64904	55.80300	19.42424	C_R	3	0	0.00000
ATOM	2056	HCD1	PHE	A	216	9.91781	55.14452	19.70030	H	1	0	0.00000
ATOM	2057	CD2	PHE	A	216	12.27153	56.63188	17.80822	C_R	3	0	0.00000
ATOM	2058	HCD2	PHE	A	216	12.73962	56.57746	16.90008	H	1	0	0.00000
ATOM	2059	CE1	PHE	A	216	11.02340	56.81685	20.32367	C_R	3	0	0.00000
ATOM	2060	HCE1	PHE	A	216	10.56927	56.88300	21.23672	H	1	0	0.00000
ATOM	2061	CE2	PHE	A	216	12.64069	57.65124	18.70520	C_R	3	0	0.00000
ATOM	2062	HCE2	PHE	A	216	13.36217	58.32552	18.44315	H	1	0	0.00000
ATOM	2063	CZ	PHE	A	216	12.01868	57.74108	19.96290	C_R	3	0	0.00000
ATOM	2064	HCZ	PHE	A	216	12.28836	58.47853	20.61377	H	1	0	0.00000
ATOM	2065	N	HSD	A	217	13.47178	53.49448	15.81231	N_R	3	0	-0.47000
ATOM	2066	HN	HSD	A	217	12.82634	53.66143	15.12952	H_A	1	0	0.31000
ATOM	2067	CA	HSD	A	217	14.83053	53.34496	15.35320	C_3	4	0	0.16000
ATOM	2068	HCA	HSD	A	217	15.46065	52.99236	16.16494	H	1	0	0.00000
ATOM	2069	C	HSD	A	217	15.42574	54.62490	14.88627	C_R	3	0	0.51000
ATOM	2070	O	HSD	A	217	14.80906	55.36130	14.07903	O_2	1	2	-0.51000
ATOM	2071	CB	HSD	A	217	14.90519	52.24481	14.25608	C_3	4	0	0.10000
ATOM	2072	HC	HSD	A	217	15.94863	52.09129	13.96591	H	1	0	0.00000
ATOM	2073	CB	HSD	A	217	14.35630	52.56177	13.36934	H	1	0	0.00000
ATOM	2074	CG	HSD	A	217	14.32894	50.95575	14.69876	C_R	3	0	0.22000
ATOM	2075	ND1	HSD	A	217	13.02150	50.72648	14.89476	N_R	2	1	-0.70000
ATOM	2076	CD2	HSD	A	217	14.98880	49.76273	14.97096	C_R	3	0	0.04000
ATOM	2077	HCD2	HSD	A	217	15.99366	49.59718	14.91634	H	1	0	0.00000
ATOM	2078	CE1	HSD	A	217	12.85981	49.45590	15.27178	C_R	3	0	0.38000
ATOM	2079	HCE1	HSD	A	217	11.96457	49.01305	15.47833	H	1	0	0.00000
ATOM	2080	NE2	HSD	A	217	14.05873	48.86584	15.32348	N_R	3	0	-0.36000
ATOM	2081	HNE2	HSD	A	217	14.21859	47.94834	15.56967	H_A	1	0	0.32000
ATOM	2082	N	GLN	A	218	16.66859	54.96702	15.30865	N_R	3	0	-0.47000
ATOM	2083	HN	GLN	A	218	17.11066	54.34635	15.88580	H_A	1	0	0.31000
ATOM	2084	CA	GLN	A	218	17.43557	56.12157	14.92864	C_3	4	0	0.16000
ATOM	2085	HCA	GLN	A	218	16.81187	56.78210	14.32176	H	1	0	0.00000
ATOM	2086	C	GLN	A	218	18.59894	55.75564	14.12156	C_2	3	0	0.51000
ATOM	2087	O	GLN	A	218	19.14780	54.66312	14.27332	O_2	1	2	-0.51000
ATOM	2088	CB	GLN	A	218	17.91082	56.92495	16.18512	C_3	4	0	0.00000
ATOM	2089	HC	GLN	A	218	18.71656	57.60849	15.89746	H	1	0	0.00000
ATOM	2090	CB	GLN	A	218	18.30877	56.23168	16.93081	H	1	0	0.00000
ATOM	2091	CG	GLN	A	218	16.79943	57.78773	16.83241	C_3	4	0	0.00000
ATOM	2092	HCG	GLN	A	218	15.98905	57.13295	17.15463	H	1	0	0.00000
ATOM	2093	HCG	GLN	A	218	16.39839	58.45389	16.06387	H	1	0	0.00000
ATOM	2094	CD	GLN	A	218	17.21678	58.64622	17.96911	C_R	3	0	0.55000
ATOM	2095	OE1	GLN	A	218	18.38879	58.74105	18.40773	O_2	1	2	-0.55000
ATOM	2096	NE2	GLN	A	218	16.26779	59.40712	18.53111	N_R	3	0	-0.60000
ATOM	2097	HNE2	GLN	A	218	16.45539	60.10641	19.15788	H_A	1	0	0.30000
ATOM	2098	HNE2	GLN	A	218	15.35116	59.28253	18.25282	H_A	1	0	0.30000
ATOM	2099	N	LEU	A	219	19.07815	56.65445	13.29030	N_R	3	0	-0.47000
ATOM	2100	HN	LEU	A	219	18.54660	57.44381	13.18843	H_A	1	0	0.31000
ATOM	2101	CA	LEU	A	219	20.33502	56.61491	12.59461	C_3	4	0	0.16000

ATOM	2102	HCA	LEU	A	219	20.87264	55.70145	12.85718	H_	1	0	0.00000
ATOM	2103	C	LEU	A	219	21.13825	57.79513	13.01711	C_R	3	0	0.51000
ATOM	2104	O	LEU	A	219	20.65891	58.94318	12.83849	O_2	1	2	-0.51000
ATOM	2105	CB	LEU	A	219	20.14045	56.59655	11.05212	C_3	4	0	0.00000
ATOM	2106	HCB	LEU	A	219	19.75488	57.56950	10.73973	H_	1	0	0.00000
ATOM	2107	HCB	LEU	A	219	19.35480	55.87499	10.80785	H_	1	0	0.00000
ATOM	2108	CG	LEU	A	219	21.45497	56.24571	10.26112	C_3	4	0	0.00000
ATOM	2109	HCG	LEU	A	219	22.31645	56.35884	10.92408	H_	1	0	0.00000
ATOM	2110	CD1	LEU	A	219	21.46306	54.76779	9.78689	C_3	4	0	0.00000
ATOM	2111	HCD1	LEU	A	219	20.62768	54.57178	9.11258	H_	1	0	0.00000
ATOM	2112	HCD1	LEU	A	219	22.39332	54.53603	9.26588	H_	1	0	0.00000
ATOM	2113	HCD1	LEU	A	219	21.37945	54.10132	10.64533	H_	1	0	0.00000
ATOM	2114	CD2	LEU	A	219	21.70870	57.22080	9.08513	C_3	4	0	0.00000
ATOM	2115	HCD2	LEU	A	219	21.84890	58.23411	9.46487	H_	1	0	0.00000
ATOM	2116	HCD2	LEU	A	219	22.61298	56.93733	8.54695	H_	1	0	0.00000
ATOM	2117	HCD2	LEU	A	219	20.86841	57.22107	8.39106	H_	1	0	0.00000
ATOM	2118	N	GLU	A	220	22.36814	57.61970	13.55834	N_R	3	0	-0.47000
ATOM	2119	HN	GLU	A	220	22.64977	56.70734	13.65571	H_A	1	0	0.31000
ATOM	2120	CA	GLU	A	220	23.27684	58.65842	13.98214	C_3	4	0	0.16000
ATOM	2121	HCA	GLU	A	220	22.79325	59.62754	13.90328	H_	1	0	0.00000
ATOM	2122	C	GLU	A	220	24.49142	58.65655	13.12969	C_R	3	0	0.51000
ATOM	2123	O	GLU	A	220	25.10607	57.58478	12.97032	O_2	1	2	-0.51000
ATOM	2124	CB	GLU	A	220	23.66835	58.46907	15.47526	C_3	4	0	0.00000
ATOM	2125	HCB	GLU	A	220	24.38980	57.65786	15.55184	H_	1	0	0.00000
ATOM	2126	HCB	GLU	A	220	22.78358	58.13713	15.99979	H_	1	0	0.00000
ATOM	2127	CG	GLU	A	220	24.27829	59.71502	16.19244	C_3	4	0	-0.10000
ATOM	2128	HCG	GLU	A	220	24.57851	60.45818	15.45030	H_	1	0	0.00000
ATOM	2129	HCG	GLU	A	220	25.19208	59.40099	16.70633	H_	1	0	0.00000
ATOM	2130	CD	GLU	A	220	23.43620	60.38984	17.20907	C_R	3	0	0.62000
ATOM	2131	OE1	GLU	A	220	22.30990	60.00440	17.60074	O_2	1	2	-0.76000
ATOM	2132	OE2	GLU	A	220	23.89169	61.39314	17.79119	O_2	1	2	-0.76000
ATOM	2133	N	GLY	A	221	24.96566	59.78252	12.56104	N_R	3	0	-0.47000
ATOM	2134	HN	GLY	A	221	24.43746	60.55935	12.71284	H_A	1	0	0.31000
ATOM	2135	CA	GLY	A	221	26.17313	59.92967	11.80454	C_3	4	0	0.16000
ATOM	2136	HCA	GLY	A	221	25.90884	60.29966	10.82050	H_	1	0	0.00000
ATOM	2137	HCA	GLY	A	221	26.68332	58.97911	11.65418	H_	1	0	0.00000
ATOM	2138	C	GLY	A	221	27.08820	60.90173	12.44098	C_R	3	0	0.51000
ATOM	2139	O	GLY	A	221	26.66312	62.05948	12.65300	O_2	1	2	-0.51000
ATOM	2140	N	LEU	A	222	28.35113	60.54822	12.77840	N_R	3	0	-0.47000
ATOM	2141	HN	LEU	A	222	28.61673	59.66076	12.54131	H_A	1	0	0.31000
ATOM	2142	CA	LEU	A	222	29.33158	61.35854	13.45312	C_3	4	0	0.16000
ATOM	2143	HCA	LEU	A	222	28.94090	62.36375	13.60337	H_	1	0	0.00000
ATOM	2144	C	LEU	A	222	30.57840	61.45315	12.64166	C_R	3	0	0.51000
ATOM	2145	O	LEU	A	222	31.14961	60.40369	12.25835	O_2	1	2	-0.51000
ATOM	2146	CB	LEU	A	222	29.59337	60.75643	14.86883	C_3	4	0	0.00000
ATOM	2147	HCB	LEU	A	222	29.83022	59.69946	14.74059	H_	1	0	0.00000
ATOM	2148	HCB	LEU	A	222	28.66200	60.79802	15.44394	H_	1	0	0.00000
ATOM	2149	CG	LEU	A	222	30.73430	61.43129	15.70069	C_3	4	0	0.00000
ATOM	2150	HCG	LEU	A	222	31.60525	61.53360	15.05794	H_	1	0	0.00000
ATOM	2151	CD1	LEU	A	222	30.35769	62.84919	16.20403	C_3	4	0	0.00000
ATOM	2152	HCD1	LEU	A	222	29.48052	62.80366	16.84948	H_	1	0	0.00000
ATOM	2153	HCD1	LEU	A	222	31.18369	63.28396	16.76807	H_	1	0	0.00000
ATOM	2154	HCD1	LEU	A	222	30.14444	63.51053	15.36845	H_	1	0	0.00000
ATOM	2155	CD2	LEU	A	222	31.18361	60.55146	16.89427	C_3	4	0	0.00000
ATOM	2156	HCD2	LEU	A	222	31.50839	59.56741	16.55794	H_	1	0	0.00000
ATOM	2157	HCD2	LEU	A	222	32.01456	61.02306	17.41828	H_	1	0	0.00000
ATOM	2158	HCD2	LEU	A	222	30.36651	60.42015	17.59246	H_	1	0	0.00000

ATOM	2159	N	VAL	A	223	31.10799	62.66826	12.35180	N_R	3	0	-0.47000
ATOM	2160	HN	VAL	A	223	30.60894	63.42754	12.65830	H_A	1	0	0.31000
ATOM	2161	CA	VAL	A	223	32.33927	62.93226	11.64133	C_3	4	0	0.16000
ATOM	2162	HCA	VAL	A	223	32.86895	61.99919	11.44442	H_	1	0	0.00000
ATOM	2163	C	VAL	A	223	33.22664	63.78705	12.47433	C_R	3	0	0.51000
ATOM	2164	O	VAL	A	223	32.77978	64.89173	12.85943	O_2	1	2	-0.51000
ATOM	2165	CB	VAL	A	223	32.03632	63.60525	10.26106	C_3	4	0	0.00000
ATOM	2166	HCB	VAL	A	223	31.44572	64.50406	10.45561	H_	1	0	0.00000
ATOM	2167	CG1	VAL	A	223	33.31959	64.06173	9.50317	C_3	4	0	0.00000
ATOM	2168	HCG1	VAL	A	223	34.00349	63.22679	9.36651	H_	1	0	0.00000
ATOM	2169	HCG1	VAL	A	223	33.06560	64.47620	8.52703	H_	1	0	0.00000
ATOM	2170	HCG1	VAL	A	223	33.84322	64.83701	10.06141	H_	1	0	0.00000
ATOM	2171	CG2	VAL	A	223	31.18150	62.67202	9.36020	C_3	4	0	0.00000
ATOM	2172	HCG2	VAL	A	223	30.20530	62.50171	9.81541	H_	1	0	0.00000
ATOM	2173	HCG2	VAL	A	223	31.02069	63.11914	8.38041	H_	1	0	0.00000
ATOM	2174	HCG2	VAL	A	223	31.67284	61.71019	9.22027	H_	1	0	0.00000
ATOM	2175	N	VAL	A	224	34.50200	63.41788	12.75398	N_R	3	0	-0.47000
ATOM	2176	HN	VAL	A	224	34.80256	62.60667	12.33670	H_A	1	0	0.31000
ATOM	2177	CA	VAL	A	224	35.43446	64.15352	13.58523	C_3	4	0	0.16000
ATOM	2178	HCA	VAL	A	224	35.04336	65.15553	13.77725	H_	1	0	0.00000
ATOM	2179	C	VAL	A	224	36.73908	64.32825	12.88587	C_R	3	0	0.51000
ATOM	2180	O	VAL	A	224	37.21827	63.36298	12.24099	O_2	1	2	-0.51000
ATOM	2181	CB	VAL	A	224	35.63488	63.47303	14.98571	C_3	4	0	0.00000
ATOM	2182	HCB	VAL	A	224	36.10688	62.49726	14.82769	H_	1	0	0.00000
ATOM	2183	CG1	VAL	A	224	36.55803	64.29436	15.93670	C_3	4	0	0.00000
ATOM	2184	HCG1	VAL	A	224	36.14198	65.28669	16.11546	H_	1	0	0.00000
ATOM	2185	HCG1	VAL	A	224	36.66405	63.78825	16.89541	H_	1	0	0.00000
ATOM	2186	HCG1	VAL	A	224	37.55546	64.40539	15.51385	H_	1	0	0.00000
ATOM	2187	CG2	VAL	A	224	34.28262	63.22475	15.70931	C_3	4	0	0.00000
ATOM	2188	HCG2	VAL	A	224	33.66722	62.55210	15.11808	H_	1	0	0.00000
ATOM	2189	HCG2	VAL	A	224	34.44133	62.76019	16.68335	H_	1	0	0.00000
ATOM	2190	HCG2	VAL	A	224	33.73998	64.15989	15.85505	H_	1	0	0.00000
ATOM	2191	N	GLY	A	225	37.42415	65.49573	13.00122	N_R	3	0	-0.47000
ATOM	2192	HN	GLY	A	225	37.00686	66.20201	13.49516	H_A	1	0	0.31000
ATOM	2193	CA	GLY	A	225	38.74611	65.73366	12.50434	C_3	4	0	0.16000
ATOM	2194	HCA	GLY	A	225	38.78430	65.45397	11.44861	H_	1	0	0.00000
ATOM	2195	HCA	GLY	A	225	39.43312	65.09116	13.05924	H_	1	0	0.00000
ATOM	2196	C	GLY	A	225	39.23476	67.13202	12.62163	C_R	3	0	0.51000
ATOM	2197	O	GLY	A	225	38.52569	68.05865	13.08770	O_2	1	2	-0.51000
ATOM	2198	N	GLU	A	226	40.48260	67.41903	12.18704	N_R	3	0	-0.47000
ATOM	2199	HN	GLU	A	226	41.01284	66.68534	11.83766	H_A	1	0	0.31000
ATOM	2200	CA	GLU	A	226	41.07797	68.72700	12.16005	C_3	4	0	0.16000
ATOM	2201	HCA	GLU	A	226	40.99973	69.15026	13.16688	H_	1	0	0.00000
ATOM	2202	C	GLU	A	226	40.37801	69.61533	11.18766	C_R	3	0	0.51000
ATOM	2203	O	GLU	A	226	40.23549	69.24445	9.99785	O_2	1	2	-0.51000
ATOM	2204	CB	GLU	A	226	42.59415	68.57669	11.84124	C_3	4	0	0.00000
ATOM	2205	HCB	GLU	A	226	42.71755	68.17339	10.83135	H_	1	0	0.00000
ATOM	2206	HCB	GLU	A	226	43.01839	67.85111	12.54273	H_	1	0	0.00000
ATOM	2207	CG	GLU	A	226	43.40341	69.89933	11.96449	C_3	4	0	-0.10000
ATOM	2208	HCG	GLU	A	226	43.22337	70.33616	12.94985	H_	1	0	0.00000
ATOM	2209	HCG	GLU	A	226	43.04783	70.60541	11.21045	H_	1	0	0.00000
ATOM	2210	CD	GLU	A	226	44.86530	69.75075	11.79381	C_R	3	0	0.62000
ATOM	2211	OE1	GLU	A	226	45.41071	68.64433	11.57924	O_2	1	2	-0.76000
ATOM	2212	OE2	GLU	A	226	45.59902	70.76177	11.86286	O_2	1	2	-0.76000
ATOM	2213	N	GLY	A	227	39.87368	70.80730	11.58568	N_R	3	0	-0.47000
ATOM	2214	HN	GLY	A	227	39.98261	71.04355	12.51971	H_A	1	0	0.31000
ATOM	2215	CA	GLY	A	227	39.23203	71.76129	10.72950	C_3	4	0	0.16000

ATOM	2216	HCA	GLY	A	227	39.87632	71.93635	9.86302	H ₋	1	0	0.00000
ATOM	2217	HCA	GLY	A	227	39.17552	72.70079	11.28297	H ₋	1	0	0.00000
ATOM	2218	C	GLY	A	227	37.86487	71.43725	10.24951	C _{-R}	3	0	0.51000
ATOM	2219	O	GLY	A	227	37.34893	72.21428	9.40997	O ₋₂	1	2	-0.51000
ATOM	2220	N	ILE	A	228	37.15729	70.36378	10.68212	N _{-R}	3	0	-0.47000
ATOM	2221	HN	ILE	A	228	37.57536	69.79103	11.34334	H ₋ A	1	0	0.31000
ATOM	2222	CA	ILE	A	228	35.83284	70.00842	10.22259	C ₋₃	4	0	0.16000
ATOM	2223	HCA	ILE	A	228	35.87685	69.92954	9.13383	H ₋	1	0	0.00000
ATOM	2224	C	ILE	A	228	34.82415	71.06579	10.55634	C _{-R}	3	0	0.51000
ATOM	2225	O	ILE	A	228	34.59150	71.32515	11.75838	O ₋₂	1	2	-0.51000
ATOM	2226	CB	ILE	A	228	35.45703	68.58789	10.77783	C ₋₃	4	0	0.00000
ATOM	2227	HCB	ILE	A	228	35.59920	68.62663	11.86459	H ₋	1	0	0.00000
ATOM	2228	CG1	ILE	A	228	36.39303	67.44543	10.25674	C ₋₃	4	0	0.00000
ATOM	2229	HCG1	ILE	A	228	36.16813	66.53462	10.81714	H ₋	1	0	0.00000
ATOM	2230	HCG1	ILE	A	228	37.43041	67.70502	10.47726	H ₋	1	0	0.00000
ATOM	2231	CG2	ILE	A	228	33.96438	68.20766	10.56582	C ₋₃	4	0	0.00000
ATOM	2232	HCG2	ILE	A	228	33.70362	68.26187	9.50863	H ₋	1	0	0.00000
ATOM	2233	HCG2	ILE	A	228	33.76710	67.19888	10.93015	H ₋	1	0	0.00000
ATOM	2234	HCG2	ILE	A	228	33.31773	68.88618	11.12113	H ₋	1	0	0.00000
ATOM	2235	CD1	ILE	A	228	36.31134	67.08847	8.75170	C ₋₃	4	0	0.00000
ATOM	2236	HCD1	ILE	A	228	36.58177	67.94160	8.13199	H ₋	1	0	0.00000
ATOM	2237	HCD1	ILE	A	228	37.00755	66.27742	8.53546	H ₋	1	0	0.00000
ATOM	2238	HCD1	ILE	A	228	35.30922	66.75446	8.48519	H ₋	1	0	0.00000
ATOM	2239	N	ALA	A	229	34.16722	71.73538	9.57266	N _{-R}	3	0	-0.47000
ATOM	2240	HN	ALA	A	229	34.40665	71.49804	8.66676	H ₋ A	1	0	0.31000
ATOM	2241	CA	ALA	A	229	33.18904	72.78697	9.72902	C ₋₃	4	0	0.16000
ATOM	2242	HCA	ALA	A	229	33.00430	72.97137	10.78998	H ₋	1	0	0.00000
ATOM	2243	C	ALA	A	229	31.86448	72.49630	9.09731	C _{-R}	3	0	0.51000
ATOM	2244	O	ALA	A	229	31.75243	71.60004	8.22356	O ₋₂	1	2	-0.51000
ATOM	2245	CB	ALA	A	229	33.78723	74.08668	9.13553	C ₋₃	4	0	0.00000
ATOM	2246	HCB	ALA	A	229	34.00399	73.96033	8.07256	H ₋	1	0	0.00000
ATOM	2247	HCB	ALA	A	229	33.09395	74.92204	9.25414	H ₋	1	0	0.00000
ATOM	2248	HCB	ALA	A	229	34.71466	74.34141	9.65220	H ₋	1	0	0.00000
ATOM	2249	N	MET	A	230	30.78390	73.24992	9.44171	N _{-R}	3	0	-0.47000
ATOM	2250	HN	MET	A	230	30.95072	73.94814	10.09421	H ₋ A	1	0	0.31000
ATOM	2251	CA	MET	A	230	29.41099	73.07021	9.02224	C ₋₃	4	0	0.16000
ATOM	2252	HCA	MET	A	230	29.05735	72.17013	9.53276	H ₋	1	0	0.00000
ATOM	2253	C	MET	A	230	29.20614	72.86443	7.56256	C _{-R}	3	0	0.51000
ATOM	2254	O	MET	A	230	28.26857	72.12928	7.17098	O ₋₂	1	2	-0.51000
ATOM	2255	CB	MET	A	230	28.51494	74.26365	9.47699	C ₋₃	4	0	0.00000
ATOM	2256	HCB	MET	A	230	27.52010	74.15978	9.03239	H ₋	1	0	0.00000
ATOM	2257	HCB	MET	A	230	28.94490	75.20056	9.10881	H ₋	1	0	0.00000
ATOM	2258	CG	MET	A	230	28.33194	74.36147	11.01098	C ₋₃	4	0	0.04000
ATOM	2259	HCG	MET	A	230	29.29494	74.58382	11.47295	H ₋	1	0	0.00000
ATOM	2260	HCG	MET	A	230	27.97365	73.40980	11.40112	H ₋	1	0	0.00000
ATOM	2261	SD	MET	A	230	27.17991	75.67319	11.49481	S ₋₃	2	0	-0.09000
ATOM	2262	CE	MET	A	230	25.63190	74.74080	11.41186	C ₋₃	4	0	0.05000
ATOM	2263	HCE	MET	A	230	25.65892	73.90419	12.11151	H ₋	1	0	0.00000
ATOM	2264	HCE	MET	A	230	24.80804	75.39970	11.68578	H ₋	1	0	0.00000
ATOM	2265	HCE	MET	A	230	25.46446	74.36700	10.40182	H ₋	1	0	0.00000
ATOM	2266	N	ALA	A	231	30.03010	73.43007	6.65264	N _{-R}	3	0	-0.47000
ATOM	2267	HN	ALA	A	231	30.69653	74.04792	6.98927	H ₋ A	1	0	0.31000
ATOM	2268	CA	ALA	A	231	30.01747	73.17044	5.23976	C ₋₃	4	0	0.16000
ATOM	2269	HCA	ALA	A	231	29.13906	73.67218	4.81832	H ₋	1	0	0.00000
ATOM	2270	C	ALA	A	231	29.96519	71.71898	4.90121	C _{-R}	3	0	0.51000
ATOM	2271	O	ALA	A	231	29.21089	71.34134	3.97478	O ₋₂	1	2	-0.51000
ATOM	2272	CB	ALA	A	231	31.27479	73.81293	4.60829	C ₋₃	4	0	0.00000

ATOM	2273	HC	ALA	A	231	32.18243	73.39589	5.05042	H ₋	1	0	0.00000
ATOM	2274	HC	ALA	A	231	31.29461	73.63634	3.53090	H ₋	1	0	0.00000
ATOM	2275	HC	ALA	A	231	31.26818	74.89164	4.77707	H ₋	1	0	0.00000
ATOM	2276	N	HSD	A	232	30.64495	70.80719	5.63837	N _{-R}	3	0	-0.47000
ATOM	2277	HN	HSD	A	232	31.07971	71.11175	6.43799	H ₋ A	1	0	0.31000
ATOM	2278	CA	HSD	A	232	30.67699	69.39172	5.37232	C ₋₃	4	0	0.16000
ATOM	2279	HCA	HSD	A	232	30.66812	69.23511	4.28648	H ₋	1	0	0.00000
ATOM	2280	C	HSD	A	232	29.49347	68.68143	5.94071	C _{-R}	3	0	0.51000
ATOM	2281	O	HSD	A	232	29.15922	67.57246	5.45934	O ₋₂	1	2	-0.51000
ATOM	2282	CB	HSD	A	232	32.00056	68.79221	5.92067	C ₋₃	4	0	0.10000
ATOM	2283	HC	HSD	A	232	32.04125	67.72162	5.70251	H ₋	1	0	0.00000
ATOM	2284	HC	HSD	A	232	32.02813	68.92188	7.00560	H ₋	1	0	0.00000
ATOM	2285	CG	HSD	A	232	33.20016	69.41797	5.32815	C _{-R}	3	0	0.22000
ATOM	2286	ND1	HSD	A	232	33.52381	69.40926	4.02377	N _{-R}	2	1	-0.70000
ATOM	2287	CD2	HSD	A	232	34.19007	70.12462	6.00269	C _{-R}	3	0	0.04000
ATOM	2288	HCD2	HSD	A	232	34.23250	70.30661	7.00396	H ₋	1	0	0.00000
ATOM	2289	CE1	HSD	A	232	34.67618	70.08579	3.89269	C _{-R}	3	0	0.38000
ATOM	2290	HCE1	HSD	A	232	35.16856	70.24242	3.01255	H ₋	1	0	0.00000
ATOM	2291	NE2	HSD	A	232	35.08109	70.52445	5.09097	N _{-R}	3	0	-0.36000
ATOM	2292	HNE2	HSD	A	232	35.88445	71.03845	5.26177	H ₋ A	1	0	0.32000
ATOM	2293	N	LEU	A	233	28.71878	69.25107	6.89675	N _{-R}	3	0	-0.47000
ATOM	2294	HN	LEU	A	233	28.89258	70.16584	7.12534	H ₋ A	1	0	0.31000
ATOM	2295	CA	LEU	A	233	27.49333	68.72145	7.42743	C ₋₃	4	0	0.16000
ATOM	2296	HCA	LEU	A	233	27.57876	67.63843	7.55165	H ₋	1	0	0.00000
ATOM	2297	C	LEU	A	233	26.43503	69.04048	6.43927	C _{-R}	3	0	0.51000
ATOM	2298	O	LEU	A	233	25.68164	68.13605	6.01042	O ₋₂	1	2	-0.51000
ATOM	2299	CB	LEU	A	233	27.20713	69.34899	8.82738	C ₋₃	4	0	0.00000
ATOM	2300	HC	LEU	A	233	27.38126	70.42355	8.76558	H ₋	1	0	0.00000
ATOM	2301	HC	LEU	A	233	27.93920	68.95509	9.53505	H ₋	1	0	0.00000
ATOM	2302	CG	LEU	A	233	25.77385	69.15100	9.41527	C ₋₃	4	0	0.00000
ATOM	2303	HCG	LEU	A	233	25.05529	69.54561	8.69362	H ₋	1	0	0.00000
ATOM	2304	CD1	LEU	A	233	25.41118	67.66327	9.65708	C ₋₃	4	0	0.00000
ATOM	2305	HCD1	LEU	A	233	26.04546	67.23450	10.43139	H ₋	1	0	0.00000
ATOM	2306	HCD1	LEU	A	233	24.37124	67.58566	9.97180	H ₋	1	0	0.00000
ATOM	2307	HCD1	LEU	A	233	25.52472	67.07637	8.74656	H ₋	1	0	0.00000
ATOM	2308	CD2	LEU	A	233	25.59825	69.97861	10.71896	C ₋₃	4	0	0.00000
ATOM	2309	HCD2	LEU	A	233	25.76338	71.03957	10.52001	H ₋	1	0	0.00000
ATOM	2310	HCD2	LEU	A	233	24.58675	69.86731	11.10968	H ₋	1	0	0.00000
ATOM	2311	HCD2	LEU	A	233	26.30635	69.65292	11.48315	H ₋	1	0	0.00000
ATOM	2312	N	LYS	A	234	26.34877	70.29909	5.94160	N _{-R}	3	0	-0.47000
ATOM	2313	HN	LYS	A	234	26.94801	70.94616	6.31812	H ₋ A	1	0	0.31000
ATOM	2314	CA	LYS	A	234	25.49269	70.67787	4.85353	C ₋₃	4	0	0.16000
ATOM	2315	HCA	LYS	A	234	24.46298	70.47731	5.16984	H ₋	1	0	0.00000
ATOM	2316	C	LYS	A	234	25.77752	69.84394	3.65042	C _{-R}	3	0	0.51000
ATOM	2317	O	LYS	A	234	24.81373	69.25554	3.11619	O ₋₂	1	2	-0.51000
ATOM	2318	CB	LYS	A	234	25.58390	72.19719	4.54692	C ₋₃	4	0	0.00000
ATOM	2319	HC	LYS	A	234	25.02292	72.39721	3.63069	H ₋	1	0	0.00000
ATOM	2320	HC	LYS	A	234	26.62614	72.47509	4.37105	H ₋	1	0	0.00000
ATOM	2321	CG	LYS	A	234	24.99869	73.07131	5.69255	C ₋₃	4	0	0.00000
ATOM	2322	HCG	LYS	A	234	25.59395	72.90794	6.59396	H ₋	1	0	0.00000
ATOM	2323	HCG	LYS	A	234	23.97773	72.75168	5.91420	H ₋	1	0	0.00000
ATOM	2324	CD	LYS	A	234	24.98523	74.59392	5.39396	C ₋₃	4	0	0.00000
ATOM	2325	HCD	LYS	A	234	25.97038	74.90417	5.03555	H ₋	1	0	0.00000
ATOM	2326	HCD	LYS	A	234	24.79379	75.11999	6.33365	H ₋	1	0	0.00000
ATOM	2327	CE	LYS	A	234	23.90273	75.02660	4.37332	C ₋₃	4	0	0.31000
ATOM	2328	HCE	LYS	A	234	22.91429	74.70610	4.71207	H ₋	1	0	0.00000
ATOM	2329	HCE	LYS	A	234	24.09833	74.58565	3.39430	H ₋	1	0	0.00000

ATOM	2330	NZ	LYS	A	234	23.88763	76.48510	4.22071	N_3	4	0	-0.30000
ATOM	2331	HNZ	LYS	A	234	24.80041	76.80321	3.88985	H_A	1	0	0.33000
ATOM	2332	HNZ	LYS	A	234	23.17036	76.74918	3.54289	H_A	1	0	0.33000
ATOM	2333	HNZ	LYS	A	234	23.68053	76.92099	5.12142	H_A	1	0	0.33000
ATOM	2334	N	GLY	A	235	27.03665	69.62738	3.19625	N_R	3	0	-0.47000
ATOM	2335	HN	GLY	A	235	27.74116	70.17923	3.53206	H_A	1	0	0.31000
ATOM	2336	CA	GLY	A	235	27.41217	68.64701	2.21762	C_3	4	0	0.16000
ATOM	2337	HCA	GLY	A	235	28.50094	68.58581	2.20913	H_	1	0	0.00000
ATOM	2338	HCA	GLY	A	235	27.09787	69.01231	1.23687	H_	1	0	0.00000
ATOM	2339	C	GLY	A	235	26.87541	67.28150	2.45831	C_R	3	0	0.51000
ATOM	2340	O	GLY	A	235	26.14261	66.76638	1.58358	O_2	1	2	-0.51000
ATOM	2341	N	ALA	A	236	27.12623	66.59942	3.60403	N_R	3	0	-0.47000
ATOM	2342	HN	ALA	A	236	27.75975	66.97107	4.22091	H_A	1	0	0.31000
ATOM	2343	CA	ALA	A	236	26.55537	65.31557	3.93682	C_3	4	0	0.16000
ATOM	2344	HCA	ALA	A	236	26.99173	64.58746	3.24346	H_	1	0	0.00000
ATOM	2345	C	ALA	A	236	25.06610	65.24982	3.82254	C_R	3	0	0.51000
ATOM	2346	O	ALA	A	236	24.54838	64.35365	3.11442	O_2	1	2	-0.51000
ATOM	2347	CB	ALA	A	236	27.00459	64.89403	5.35736	C_3	4	0	0.00000
ATOM	2348	HCB	ALA	A	236	26.66498	65.61185	6.10414	H_	1	0	0.00000
ATOM	2349	HCB	ALA	A	236	26.59920	63.91205	5.60930	H_	1	0	0.00000
ATOM	2350	HCB	ALA	A	236	28.09330	64.83469	5.40094	H_	1	0	0.00000
ATOM	2351	N	ILE	A	237	24.26352	66.14547	4.44931	N_R	3	0	-0.47000
ATOM	2352	HN	ILE	A	237	24.70102	66.82067	4.96726	H_A	1	0	0.31000
ATOM	2353	CA	ILE	A	237	22.81911	66.14544	4.37308	C_3	4	0	0.16000
ATOM	2354	HCA	ILE	A	237	22.49786	65.12796	4.60259	H_	1	0	0.00000
ATOM	2355	C	ILE	A	237	22.32871	66.44694	2.98880	C_R	3	0	0.51000
ATOM	2356	O	ILE	A	237	21.33048	65.82946	2.54537	O_2	1	2	-0.51000
ATOM	2357	CB	ILE	A	237	22.18207	67.04654	5.48543	C_3	4	0	0.00000
ATOM	2358	HCB	ILE	A	237	22.50156	68.07387	5.27770	H_	1	0	0.00000
ATOM	2359	CG1	ILE	A	237	22.67358	66.69832	6.93421	C_3	4	0	0.00000
ATOM	2360	HCG1	ILE	A	237	22.15356	67.33439	7.65669	H_	1	0	0.00000
ATOM	2361	HCG1	ILE	A	237	23.72976	66.94593	7.01900	H_	1	0	0.00000
ATOM	2362	CG2	ILE	A	237	20.62338	67.05638	5.45402	C_3	4	0	0.00000
ATOM	2363	HCG2	ILE	A	237	20.22242	66.05459	5.60593	H_	1	0	0.00000
ATOM	2364	HCG2	ILE	A	237	20.23333	67.71874	6.22678	H_	1	0	0.00000
ATOM	2365	HCG2	ILE	A	237	20.25610	67.42547	4.50318	H_	1	0	0.00000
ATOM	2366	CD1	ILE	A	237	22.51262	65.22931	7.39731	C_3	4	0	0.00000
ATOM	2367	HCD1	ILE	A	237	23.14124	64.56255	6.80785	H_	1	0	0.00000
ATOM	2368	HCD1	ILE	A	237	22.81846	65.14849	8.43820	H_	1	0	0.00000
ATOM	2369	HCD1	ILE	A	237	21.47749	64.90530	7.31761	H_	1	0	0.00000
ATOM	2370	N	TYR	A	238	22.93804	67.34157	2.17329	N_R	3	0	-0.47000
ATOM	2371	HN	TYR	A	238	23.61409	67.90420	2.54002	H_A	1	0	0.31000
ATOM	2372	CA	TYR	A	238	22.65476	67.52562	0.77575	C_3	4	0	0.16000
ATOM	2373	HCA	TYR	A	238	21.60048	67.80551	0.70268	H_	1	0	0.00000
ATOM	2374	C	TYR	A	238	22.87323	66.27072	0.00045	C_R	3	0	0.51000
ATOM	2375	O	TYR	A	238	21.93109	65.82940	-0.69191	O_2	1	2	-0.51000
ATOM	2376	CB	TYR	A	238	23.48180	68.71630	0.20571	C_3	4	0	0.00000
ATOM	2377	HCB	TYR	A	238	24.54534	68.47760	0.27562	H_	1	0	0.00000
ATOM	2378	HCB	TYR	A	238	23.31628	69.60419	0.82246	H_	1	0	0.00000
ATOM	2379	CG	TYR	A	238	23.11232	69.04721	-1.19783	C_R	3	0	0.00000
ATOM	2380	CD1	TYR	A	238	23.96673	68.70936	-2.27357	C_R	3	0	0.00000
ATOM	2381	HCD1	TYR	A	238	24.88465	68.29425	-2.09398	H_	1	0	0.00000
ATOM	2382	CD2	TYR	A	238	21.87742	69.67718	-1.48320	C_R	3	0	0.00000
ATOM	2383	HCD2	TYR	A	238	21.25201	69.95906	-0.72398	H_	1	0	0.00000
ATOM	2384	CE1	TYR	A	238	23.55781	68.91747	-3.60490	C_R	3	0	0.00000
ATOM	2385	HCE1	TYR	A	238	24.17428	68.64051	-4.37282	H_	1	0	0.00000
ATOM	2386	CE2	TYR	A	238	21.48141	69.90908	-2.81364	C_R	3	0	0.00000

ATOM	2387	HCE2	TYR	A	238	20.58367	70.35551	-3.00763	H_	1	0	0.00000
ATOM	2388	CZ	TYR	A	238	22.30059	69.48913	-3.87529	C_R	3	0	0.11000
ATOM	2389	OH	TYR	A	238	21.85570	69.60023	-5.14626	O_R	2	2	-0.54000
ATOM	2390	HOH	TYR	A	238	22.37379	69.19276	-5.87313	H_A	1	0	0.43000
ATOM	2391	N	GLU	A	239	24.03113	65.57418	0.04444	N_R	3	0	-0.47000
ATOM	2392	HN	GLU	A	239	24.74646	65.94220	0.55972	H_A	1	0	0.31000
ATOM	2393	CA	GLU	A	239	24.24606	64.32536	-0.64158	C_3	4	0	0.16000
ATOM	2394	HCA	GLU	A	239	24.02126	64.51755	-1.69262	H_	1	0	0.00000
ATOM	2395	C	GLU	A	239	23.31657	63.24162	-0.19589	C_R	3	0	0.51000
ATOM	2396	O	GLU	A	239	22.80457	62.49842	-1.06615	O_2	1	2	-0.51000
ATOM	2397	CB	GLU	A	239	25.73648	63.89478	-0.58384	C_3	4	0	0.00000
ATOM	2398	HCB	GLU	A	239	25.83742	62.88215	-0.98697	H_	1	0	0.00000
ATOM	2399	HCB	GLU	A	239	26.04240	63.86643	0.46339	H_	1	0	0.00000
ATOM	2400	CG	GLU	A	239	26.71375	64.82478	-1.36229	C_3	4	0	-0.10000
ATOM	2401	HCG	GLU	A	239	27.71461	64.38914	-1.32444	H_	1	0	0.00000
ATOM	2402	HCG	GLU	A	239	26.76183	65.79226	-0.85885	H_	1	0	0.00000
ATOM	2403	CD	GLU	A	239	26.36232	65.02877	-2.78442	C_R	3	0	0.62000
ATOM	2404	OE1	GLU	A	239	26.27944	64.05912	-3.56968	O_2	1	2	-0.76000
ATOM	2405	OE2	GLU	A	239	26.12807	66.17533	-3.22865	O_2	1	2	-0.76000
ATOM	2406	N	LEU	A	240	22.92125	63.09952	1.09544	N_R	3	0	-0.47000
ATOM	2407	HN	LEU	A	240	23.42621	63.56667	1.75968	H_A	1	0	0.31000
ATOM	2408	CA	LEU	A	240	21.79958	62.29636	1.52485	C_3	4	0	0.16000
ATOM	2409	HCA	LEU	A	240	22.05900	61.25698	1.30684	H_	1	0	0.00000
ATOM	2410	C	LEU	A	240	20.55277	62.65841	0.78597	C_R	3	0	0.51000
ATOM	2411	O	LEU	A	240	19.95779	61.76836	0.13719	O_2	1	2	-0.51000
ATOM	2412	CB	LEU	A	240	21.59078	62.40675	3.06687	C_3	4	0	0.00000
ATOM	2413	HCB	LEU	A	240	21.50449	63.46211	3.31314	H_	1	0	0.00000
ATOM	2414	HCB	LEU	A	240	22.49139	62.03704	3.56665	H_	1	0	0.00000
ATOM	2415	CG	LEU	A	240	20.33607	61.67927	3.65741	C_3	4	0	0.00000
ATOM	2416	HCG	LEU	A	240	19.46173	61.98371	3.08097	H_	1	0	0.00000
ATOM	2417	CD1	LEU	A	240	20.44322	60.13564	3.54673	C_3	4	0	0.00000
ATOM	2418	HCD1	LEU	A	240	21.32163	59.76744	4.07374	H_	1	0	0.00000
ATOM	2419	HCD1	LEU	A	240	19.55831	59.66840	3.97451	H_	1	0	0.00000
ATOM	2420	HCD1	LEU	A	240	20.50981	59.82712	2.50416	H_	1	0	0.00000
ATOM	2421	CD2	LEU	A	240	20.03832	62.12349	5.11627	C_3	4	0	0.00000
ATOM	2422	HCD2	LEU	A	240	19.85857	63.19988	5.15394	H_	1	0	0.00000
ATOM	2423	HCD2	LEU	A	240	19.14530	61.62139	5.49179	H_	1	0	0.00000
ATOM	2424	HCD2	LEU	A	240	20.86879	61.88935	5.77894	H_	1	0	0.00000
ATOM	2425	N	ALA	A	241	20.06276	63.92321	0.78190	N_R	3	0	-0.47000
ATOM	2426	HN	ALA	A	241	20.50704	64.56399	1.33664	H_A	1	0	0.31000
ATOM	2427	CA	ALA	A	241	18.91442	64.36607	0.03060	C_3	4	0	0.16000
ATOM	2428	HCA	ALA	A	241	18.03712	63.90384	0.49557	H_	1	0	0.00000
ATOM	2429	C	ALA	A	241	18.95628	63.97456	-1.40856	C_R	3	0	0.51000
ATOM	2430	O	ALA	A	241	17.96696	63.39162	-1.90444	O_2	1	2	-0.51000
ATOM	2431	CB	ALA	A	241	18.73780	65.89770	0.16727	C_3	4	0	0.00000
ATOM	2432	HCB	ALA	A	241	19.59103	66.44023	-0.22792	H_	1	0	0.00000
ATOM	2433	HCB	ALA	A	241	17.85527	66.22662	-0.38250	H_	1	0	0.00000
ATOM	2434	HCB	ALA	A	241	18.61896	66.16261	1.21854	H_	1	0	0.00000
ATOM	2435	N	GLN	A	242	20.06926	64.20523	-2.14076	N_R	3	0	-0.47000
ATOM	2436	HN	GLN	A	242	20.75014	64.70068	-1.69012	H_A	1	0	0.31000
ATOM	2437	CA	GLN	A	242	20.31250	63.79520	-3.50074	C_3	4	0	0.16000
ATOM	2438	HCA	GLN	A	242	19.57112	64.29168	-4.12900	H_	1	0	0.00000
ATOM	2439	C	GLN	A	242	20.19654	62.34771	-3.70005	C_2	3	0	0.51000
ATOM	2440	O	GLN	A	242	19.46141	61.92258	-4.58239	O_2	1	2	-0.51000
ATOM	2441	CB	GLN	A	242	21.71715	64.29153	-3.95755	C_3	4	0	0.00000
ATOM	2442	HCB	GLN	A	242	21.94026	63.90058	-4.95604	H_	1	0	0.00000
ATOM	2443	HCB	GLN	A	242	22.46523	63.86588	-3.28927	H_	1	0	0.00000

ATOM	2444	CG	GLN	A	242	21.90881	65.83603	-3.98043	C_3	4	0	0.00000
ATOM	2445	HCG	GLN	A	242	22.97960	66.04921	-3.93117	H_	1	0	0.00000
ATOM	2446	HCG	GLN	A	242	21.44783	66.30444	-3.11063	H_	1	0	0.00000
ATOM	2447	CD	GLN	A	242	21.34760	66.45630	-5.19295	C_R	3	0	0.55000
ATOM	2448	OE1	GLN	A	242	22.06890	66.82257	-6.14640	O_2	1	2	-0.55000
ATOM	2449	NE2	GLN	A	242	20.03247	66.65777	-5.31428	N_R	3	0	-0.60000
ATOM	2450	HNE2	GLN	A	242	19.66136	66.98285	-6.12447	H_A	1	0	0.30000
ATOM	2451	HNE2	GLN	A	242	19.41762	66.46015	-4.61587	H_A	1	0	0.30000
ATOM	2452	N	ALA	A	243	20.86400	61.49367	-2.94128	N_R	3	0	-0.47000
ATOM	2453	HN	ALA	A	243	21.48251	61.85643	-2.30754	H_A	1	0	0.31000
ATOM	2454	CA	ALA	A	243	20.75470	60.05871	-2.98902	C_3	4	0	0.16000
ATOM	2455	HCA	ALA	A	243	21.08202	59.73324	-3.98365	H_	1	0	0.00000
ATOM	2456	C	ALA	A	243	19.36519	59.56730	-2.75162	C_R	3	0	0.51000
ATOM	2457	O	ALA	A	243	18.88226	58.69546	-3.51383	O_2	1	2	-0.51000
ATOM	2458	CB	ALA	A	243	21.73653	59.43507	-1.97043	C_3	4	0	0.00000
ATOM	2459	HC	ALA	A	243	21.49868	59.75262	-0.95487	H_	1	0	0.00000
ATOM	2460	HC	ALA	A	243	21.68447	58.34774	-2.02203	H_	1	0	0.00000
ATOM	2461	HC	ALA	A	243	22.75975	59.73755	-2.20090	H_	1	0	0.00000
ATOM	2462	N	LEU	A	244	18.61213	60.06148	-1.73943	N_R	3	0	-0.47000
ATOM	2463	HN	LEU	A	244	19.04337	60.66694	-1.13786	H_A	1	0	0.31000
ATOM	2464	CA	LEU	A	244	17.23215	59.73719	-1.51134	C_3	4	0	0.16000
ATOM	2465	HCA	LEU	A	244	17.17896	58.65634	-1.39444	H_	1	0	0.00000
ATOM	2466	C	LEU	A	244	16.34210	60.12409	-2.64839	C_R	3	0	0.51000
ATOM	2467	O	LEU	A	244	15.60210	59.24377	-3.15463	O_2	1	2	-0.51000
ATOM	2468	CB	LEU	A	244	16.69381	60.37577	-0.19115	C_3	4	0	0.00000
ATOM	2469	HC	LEU	A	244	15.61224	60.21110	-0.13517	H_	1	0	0.00000
ATOM	2470	HC	LEU	A	244	16.85135	61.45783	-0.25358	H_	1	0	0.00000
ATOM	2471	CG	LEU	A	244	17.31097	59.85903	1.14882	C_3	4	0	0.00000
ATOM	2472	HCG	LEU	A	244	18.39588	59.95811	1.09069	H_	1	0	0.00000
ATOM	2473	CD1	LEU	A	244	16.82222	60.74315	2.33354	C_3	4	0	0.00000
ATOM	2474	HCD1	LEU	A	244	15.73555	60.70846	2.41765	H_	1	0	0.00000
ATOM	2475	HCD1	LEU	A	244	17.25142	60.40069	3.27515	H_	1	0	0.00000
ATOM	2476	HCD1	LEU	A	244	17.12185	61.78131	2.18423	H_	1	0	0.00000
ATOM	2477	CD2	LEU	A	244	17.00137	58.36356	1.43876	C_3	4	0	0.00000
ATOM	2478	HCD2	LEU	A	244	17.42753	57.71809	0.67170	H_	1	0	0.00000
ATOM	2479	HCD2	LEU	A	244	17.44112	58.06346	2.39085	H_	1	0	0.00000
ATOM	2480	HCD2	LEU	A	244	15.92416	58.19434	1.48114	H_	1	0	0.00000
ATOM	2481	N	PHE	A	245	16.26474	61.41111	-3.06540	N_R	3	0	-0.47000
ATOM	2482	HN	PHE	A	245	16.86701	62.04053	-2.67045	H_A	1	0	0.31000
ATOM	2483	CA	PHE	A	245	15.31720	61.96339	-3.99842	C_3	4	0	0.16000
ATOM	2484	HCA	PHE	A	245	14.76868	61.16856	-4.51240	H_	1	0	0.00000
ATOM	2485	C	PHE	A	245	15.96821	62.82426	-5.02915	C_R	3	0	0.51000
ATOM	2486	O	PHE	A	245	16.94692	63.53351	-4.70326	O_2	1	2	-0.51000
ATOM	2487	CB	PHE	A	245	14.28999	62.84791	-3.21693	C_3	4	0	0.00000
ATOM	2488	HC	PHE	A	245	13.46207	63.09929	-3.88496	H_	1	0	0.00000
ATOM	2489	HC	PHE	A	245	14.77026	63.79504	-2.95104	H_	1	0	0.00000
ATOM	2490	CG	PHE	A	245	13.71100	62.23502	-1.98649	C_R	3	0	0.00000
ATOM	2491	CD1	PHE	A	245	12.91177	61.07015	-2.06592	C_R	3	0	0.00000
ATOM	2492	HCD1	PHE	A	245	12.73452	60.62711	-2.97028	H_	1	0	0.00000
ATOM	2493	CD2	PHE	A	245	13.93077	62.81634	-0.71290	C_R	3	0	0.00000
ATOM	2494	HCD2	PHE	A	245	14.50843	63.65438	-0.61827	H_	1	0	0.00000
ATOM	2495	CE1	PHE	A	245	12.33672	60.51241	-0.90779	C_R	3	0	0.00000
ATOM	2496	HCE1	PHE	A	245	11.75004	59.67822	-0.97935	H_	1	0	0.00000
ATOM	2497	CE2	PHE	A	245	13.36188	62.25496	0.44542	C_R	3	0	0.00000
ATOM	2498	HCE2	PHE	A	245	13.52933	62.68433	1.35794	H_	1	0	0.00000
ATOM	2499	CZ	PHE	A	245	12.56323	61.10304	0.34736	C_R	3	0	0.00000
ATOM	2500	HCZ	PHE	A	245	12.14777	60.69579	1.18733	H_	1	0	0.00000

ATOM	2501	N	GLY	A	246	15.42085	62.97198	-6.26002	N_R	3	0	-0.47000
ATOM	2502	HN	GLY	A	246	14.75119	62.32574	-6.53287	H_A	1	0	0.31000
ATOM	2503	CA	GLY	A	246	15.67515	64.06701	-7.15519	C_3	4	0	0.16000
ATOM	2504	HCA	GLY	A	246	16.24603	64.84643	-6.65608	H_	1	0	0.00000
ATOM	2505	HCA	GLY	A	246	14.70180	64.50818	-7.37892	H_	1	0	0.00000
ATOM	2506	C	GLY	A	246	16.29654	63.69664	-8.45486	C_R	3	0	0.51000
ATOM	2507	O	GLY	A	246	15.68059	62.81963	-9.10801	O_2	1	2	-0.51000
ATOM	2508	N	PRO	A	247	17.42413	64.26608	-8.99535	N_R	3	0	-0.29000
ATOM	2509	CA	PRO	A	247	18.31139	65.20852	-8.34093	C_3	4	0	0.11000
ATOM	2510	HCA	PRO	A	247	18.60018	64.79349	-7.36920	H_	1	0	0.00000
ATOM	2511	C	PRO	A	247	17.78364	66.55799	-8.10278	C_2	3	0	0.51000
ATOM	2512	O	PRO	A	247	18.50010	67.39458	-7.56706	O_2	1	2	-0.51000
ATOM	2513	CB	PRO	A	247	19.57263	65.21655	-9.24408	C_3	4	0	0.00000
ATOM	2514	HC	PRO	A	247	20.26901	64.43550	-8.92161	H_	1	0	0.00000
ATOM	2515	HC	PRO	A	247	20.10769	66.17032	-9.25268	H_	1	0	0.00000
ATOM	2516	CG	PRO	A	247	19.03132	64.87190	-10.63478	C_3	4	0	0.00000
ATOM	2517	HCG	PRO	A	247	19.78871	64.39176	-11.26041	H_	1	0	0.00000
ATOM	2518	HCG	PRO	A	247	18.66978	65.77715	-11.13246	H_	1	0	0.00000
ATOM	2519	CD	PRO	A	247	17.85964	63.92939	-10.32125	C_3	4	0	0.18000
ATOM	2520	HCD	PRO	A	247	17.06234	64.06753	-11.05760	H_	1	0	0.00000
ATOM	2521	HCD	PRO	A	247	18.19834	62.88908	-10.34634	H_	1	0	0.00000
ATOM	2522	N	ASP	A	248	16.54616	66.89275	-8.41741	N_R	3	0	-0.47000
ATOM	2523	HN	ASP	A	248	16.06907	66.30883	-9.01690	H_A	1	0	0.31000
ATOM	2524	CA	ASP	A	248	15.81168	68.08916	-8.09365	C_3	4	0	0.16000
ATOM	2525	HCA	ASP	A	248	16.41220	68.94519	-8.41519	H_	1	0	0.00000
ATOM	2526	C	ASP	A	248	15.50859	68.27292	-6.62772	C_R	3	0	0.51000
ATOM	2527	O	ASP	A	248	14.42224	68.78506	-6.26148	O_2	1	2	-0.51000
ATOM	2528	CB	ASP	A	248	14.50063	68.07502	-8.95359	C_3	4	0	-0.10000
ATOM	2529	HC	ASP	A	248	14.06365	69.07748	-8.92949	H_	1	0	0.00000
ATOM	2530	HC	ASP	A	248	13.77310	67.39551	-8.50017	H_	1	0	0.00000
ATOM	2531	CG	ASP	A	248	14.65746	67.65906	-10.36762	C_R	3	0	0.62000
ATOM	2532	OD1	ASP	A	248	14.53872	68.48887	-11.29630	O_2	1	2	-0.76000
ATOM	2533	OD2	ASP	A	248	14.89748	66.46163	-10.65491	O_2	1	2	-0.76000
ATOM	2534	N	SER	A	249	16.41707	67.95240	-5.67322	N_R	3	0	-0.47000
ATOM	2535	HN	SER	A	249	17.25592	67.67671	-6.04378	H_A	1	0	0.31000
ATOM	2536	CA	SER	A	249	16.23244	68.00406	-4.23390	C_3	4	0	0.16000
ATOM	2537	HCA	SER	A	249	15.18733	68.23869	-4.01980	H_	1	0	0.00000
ATOM	2538	C	SER	A	249	17.02897	69.06688	-3.56525	C_R	3	0	0.51000
ATOM	2539	O	SER	A	249	17.91408	69.69490	-4.19008	O_2	1	2	-0.51000
ATOM	2540	CB	SER	A	249	16.49236	66.62669	-3.56630	C_3	4	0	0.23000
ATOM	2541	HC	SER	A	249	15.97178	65.85517	-4.13204	H_	1	0	0.00000
ATOM	2542	HC	SER	A	249	16.08580	66.61680	-2.55187	H_	1	0	0.00000
ATOM	2543	OG	SER	A	249	17.87710	66.29589	-3.47730	O_3	2	2	-0.66000
ATOM	2544	HOG	SER	A	249	18.26917	66.95712	-2.87165	H_A	1	0	0.43000
ATOM	2545	N	LYS	A	250	16.76953	69.37846	-2.27022	N_R	3	0	-0.47000
ATOM	2546	HN	LYS	A	250	16.09691	68.83766	-1.82566	H_A	1	0	0.31000
ATOM	2547	CA	LYS	A	250	17.36015	70.45057	-1.50482	C_3	4	0	0.16000
ATOM	2548	HCA	LYS	A	250	18.44532	70.32800	-1.57061	H_	1	0	0.00000
ATOM	2549	C	LYS	A	250	17.02833	70.36444	-0.05099	C_R	3	0	0.51000
ATOM	2550	O	LYS	A	250	16.18679	69.52746	0.35466	O_2	1	2	-0.51000
ATOM	2551	CB	LYS	A	250	16.99564	71.84927	-2.09752	C_3	4	0	0.00000
ATOM	2552	HC	LYS	A	250	17.47042	71.94111	-3.07462	H_	1	0	0.00000
ATOM	2553	HC	LYS	A	250	17.42660	72.63724	-1.47385	H_	1	0	0.00000
ATOM	2554	CG	LYS	A	250	15.46936	72.10242	-2.24546	C_3	4	0	0.00000
ATOM	2555	HCG	LYS	A	250	15.03594	72.14295	-1.24476	H_	1	0	0.00000
ATOM	2556	HCG	LYS	A	250	15.00194	71.27156	-2.77774	H_	1	0	0.00000
ATOM	2557	CD	LYS	A	250	15.10832	73.41682	-2.98573	C_3	4	0	0.00000

ATOM	2558	HCD	LYS	A	250	15.69238	74.24170	-2.56970	H_	1	0	0.00000
ATOM	2559	HCD	LYS	A	250	14.05230	73.63082	-2.79922	H_	1	0	0.00000
ATOM	2560	CE	LYS	A	250	15.32317	73.34515	-4.51928	C_3	4	0	0.31000
ATOM	2561	HCE	LYS	A	250	14.73556	72.52810	-4.94478	H_	1	0	0.00000
ATOM	2562	HCE	LYS	A	250	16.37569	73.18095	-4.75506	H_	1	0	0.00000
ATOM	2563	NZ	LYS	A	250	14.90715	74.59474	-5.16228	N_3	4	0	-0.30000
ATOM	2564	HNZ	LYS	A	250	15.45865	75.36993	-4.79094	H__A	1	0	0.33000
ATOM	2565	HNZ	LYS	A	250	15.05968	74.52109	-6.17044	H__A	1	0	0.33000
ATOM	2566	HNZ	LYS	A	250	13.91556	74.75879	-4.98080	H__A	1	0	0.33000
ATOM	2567	N	VAL	A	251	17.67650	71.16400	0.83527	N_R	3	0	-0.47000
ATOM	2568	HN	VAL	A	251	18.26431	71.83771	0.46429	H__A	1	0	0.31000
ATOM	2569	CA	VAL	A	251	17.65700	71.04880	2.27532	C_3	4	0	0.16000
ATOM	2570	HCA	VAL	A	251	16.91092	70.30648	2.56322	H_	1	0	0.00000
ATOM	2571	C	VAL	A	251	17.28322	72.30827	2.98885	C_R	3	0	0.51000
ATOM	2572	O	VAL	A	251	17.55292	73.41941	2.47404	O_2	1	2	-0.51000
ATOM	2573	CB	VAL	A	251	19.04704	70.51510	2.77010	C_3	4	0	0.00000
ATOM	2574	HC	VAL	A	251	19.00621	70.42847	3.86232	H_	1	0	0.00000
ATOM	2575	CG1	VAL	A	251	19.32953	69.08506	2.23183	C_3	4	0	0.00000
ATOM	2576	HCG1	VAL	A	251	19.35260	69.07055	1.14208	H_	1	0	0.00000
ATOM	2577	HCG1	VAL	A	251	20.29434	68.73520	2.59223	H_	1	0	0.00000
ATOM	2578	HCG1	VAL	A	251	18.56083	68.39142	2.57626	H_	1	0	0.00000
ATOM	2579	CG2	VAL	A	251	20.24145	71.45624	2.43387	C_3	4	0	0.00000
ATOM	2580	HCG2	VAL	A	251	20.10505	72.43206	2.90080	H_	1	0	0.00000
ATOM	2581	HCG2	VAL	A	251	21.17654	71.03750	2.80967	H_	1	0	0.00000
ATOM	2582	HCG2	VAL	A	251	20.33723	71.59439	1.35622	H_	1	0	0.00000
ATOM	2583	N	ARG	A	252	16.71504	72.23621	4.21987	N_R	3	0	-0.47000
ATOM	2584	HN	ARG	A	252	16.50444	71.34440	4.51031	H__A	1	0	0.31000
ATOM	2585	CA	ARG	A	252	16.47066	73.33168	5.13542	C_3	4	0	0.16000
ATOM	2586	HCA	ARG	A	252	16.76694	74.28230	4.67894	H_	1	0	0.00000
ATOM	2587	C	ARG	A	252	17.26312	73.11531	6.37696	C_R	3	0	0.51000
ATOM	2588	O	ARG	A	252	17.22104	71.98204	6.90885	O_2	1	2	-0.51000
ATOM	2589	CB	ARG	A	252	14.96864	73.44891	5.54576	C_3	4	0	0.00000
ATOM	2590	HC	ARG	A	252	14.76051	72.67637	6.27961	H_	1	0	0.00000
ATOM	2591	HC	ARG	A	252	14.33536	73.26321	4.67570	H_	1	0	0.00000
ATOM	2592	CG	ARG	A	252	14.54268	74.80602	6.18376	C_3	4	0	0.00000
ATOM	2593	HCG	ARG	A	252	14.22685	75.48708	5.38983	H_	1	0	0.00000
ATOM	2594	HCG	ARG	A	252	15.40296	75.27602	6.66772	H_	1	0	0.00000
ATOM	2595	CD	ARG	A	252	13.42381	74.69452	7.26454	C_3	4	0	0.38000
ATOM	2596	HCD	ARG	A	252	13.07827	75.69877	7.51764	H_	1	0	0.00000
ATOM	2597	HCD	ARG	A	252	13.86555	74.26706	8.16779	H_	1	0	0.00000
ATOM	2598	NE	ARG	A	252	12.28246	73.89361	6.95794	N_R	3	0	-0.70000
ATOM	2599	HNE	ARG	A	252	12.01737	73.19439	7.57265	H__A	1	0	0.44000
ATOM	2600	CZ	ARG	A	252	11.44881	74.00771	5.92727	C_R	3	0	0.64000
ATOM	2601	NH1	ARG	A	252	11.57449	74.81968	4.88658	N_R	3	0	-0.80000
ATOM	2602	HNH1	ARG	A	252	11.02569	74.70302	4.10746	H__A	1	0	0.46000
ATOM	2603	HNH1	ARG	A	252	12.26636	75.48841	4.89439	H__A	1	0	0.46000
ATOM	2604	NH2	ARG	A	252	10.42078	73.19258	6.01652	N_R	3	0	-0.80000
ATOM	2605	HNH2	ARG	A	252	9.70652	73.17916	5.37314	H__A	1	0	0.46000
ATOM	2606	HNH2	ARG	A	252	10.43090	72.61324	6.78313	H__A	1	0	0.46000
ATOM	2607	N	PHE	A	253	17.94116	74.13489	6.95482	N_R	3	0	-0.47000
ATOM	2608	HN	PHE	A	253	17.96299	74.97195	6.46736	H__A	1	0	0.31000
ATOM	2609	CA	PHE	A	253	18.58991	74.12616	8.24145	C_3	4	0	0.16000
ATOM	2610	HCA	PHE	A	253	18.42260	73.17651	8.75788	H_	1	0	0.00000
ATOM	2611	C	PHE	A	253	18.00372	75.21439	9.08347	C_R	3	0	0.51000
ATOM	2612	O	PHE	A	253	18.09640	76.39515	8.67003	O_2	1	2	-0.51000
ATOM	2613	CB	PHE	A	253	20.13087	74.31235	8.05889	C_3	4	0	0.00000
ATOM	2614	HC	PHE	A	253	20.53876	74.76026	8.97043	H_	1	0	0.00000

ATOM	2615	HCB	PHE	A	253	20.33316	75.02566	7.25468	H_	1	0	0.00000
ATOM	2616	CG	PHE	A	253	20.85830	73.04208	7.77077	C_R	3	0	0.00000
ATOM	2617	CD1	PHE	A	253	21.74002	72.49013	8.73088	C_R	3	0	0.00000
ATOM	2618	HCD1	PHE	A	253	21.90731	72.96806	9.61684	H_	1	0	0.00000
ATOM	2619	CD2	PHE	A	253	20.69211	72.35764	6.54192	C_R	3	0	0.00000
ATOM	2620	HCD2	PHE	A	253	20.08529	72.73948	5.81423	H_	1	0	0.00000
ATOM	2621	CE1	PHE	A	253	22.40555	71.27684	8.49057	C_R	3	0	0.00000
ATOM	2622	HCE1	PHE	A	253	23.02455	70.88747	9.20262	H_	1	0	0.00000
ATOM	2623	CE2	PHE	A	253	21.36261	71.14350	6.29722	C_R	3	0	0.00000
ATOM	2624	HCE2	PHE	A	253	21.23117	70.65406	5.41018	H_	1	0	0.00000
ATOM	2625	CZ	PHE	A	253	22.21926	70.60490	7.27267	C_R	3	0	0.00000
ATOM	2626	HCZ	PHE	A	253	22.71377	69.73084	7.09701	H_	1	0	0.00000
ATOM	2627	N	GLN	A	254	17.39284	74.94755	10.26650	N_R	3	0	-0.47000
ATOM	2628	HN	GLN	A	254	17.31945	74.02259	10.50254	H_A	1	0	0.31000
ATOM	2629	CA	GLN	A	254	16.82093	75.89700	11.19925	C_3	4	0	0.16000
ATOM	2630	HCA	GLN	A	254	16.84463	76.88353	10.73986	H_	1	0	0.00000
ATOM	2631	C	GLN	A	254	17.61903	75.94369	12.44437	C_2	3	0	0.51000
ATOM	2632	O	GLN	A	254	17.68395	74.89113	13.06365	O_2	1	2	-0.51000
ATOM	2633	CB	GLN	A	254	15.30353	75.55288	11.46132	C_3	4	0	0.00000
ATOM	2634	HCB	GLN	A	254	15.09644	75.51507	12.53496	H_	1	0	0.00000
ATOM	2635	HCB	GLN	A	254	15.06567	74.56511	11.05559	H_	1	0	0.00000
ATOM	2636	CG	GLN	A	254	14.32765	76.59127	10.83849	C_3	4	0	0.00000
ATOM	2637	HCG	GLN	A	254	14.60268	76.72388	9.78818	H_	1	0	0.00000
ATOM	2638	HCG	GLN	A	254	14.48198	77.54914	11.34078	H_	1	0	0.00000
ATOM	2639	CD	GLN	A	254	12.87492	76.30309	10.89972	C_R	3	0	0.55000
ATOM	2640	OE1	GLN	A	254	12.13110	76.72301	9.98713	O_2	1	2	-0.55000
ATOM	2641	NE2	GLN	A	254	12.23656	75.64303	11.87541	N_R	3	0	-0.60000
ATOM	2642	HNE2	GLN	A	254	11.26881	75.60892	11.84900	H_A	1	0	0.30000
ATOM	2643	HNE2	GLN	A	254	12.70447	75.15430	12.56196	H_A	1	0	0.30000
ATOM	2644	N	PRO	A	255	18.27080	76.99776	12.94786	N_R	3	0	-0.29000
ATOM	2645	CA	PRO	A	255	18.93844	77.01652	14.24356	C_3	4	0	0.11000
ATOM	2646	HCA	PRO	A	255	19.83153	76.38930	14.15109	H_	1	0	0.00000
ATOM	2647	C	PRO	A	255	18.13904	76.57335	15.39159	C_2	3	0	0.51000
ATOM	2648	O	PRO	A	255	17.01435	77.03494	15.52186	O_2	1	2	-0.51000
ATOM	2649	CB	PRO	A	255	19.41188	78.48008	14.43432	C_3	4	0	0.00000
ATOM	2650	HCB	PRO	A	255	20.37441	78.53277	14.95157	H_	1	0	0.00000
ATOM	2651	HCB	PRO	A	255	18.67992	79.08007	14.98581	H_	1	0	0.00000
ATOM	2652	CG	PRO	A	255	19.51613	79.01952	13.00504	C_3	4	0	0.00000
ATOM	2653	HCG	PRO	A	255	20.49887	78.78248	12.58543	H_	1	0	0.00000
ATOM	2654	HCG	PRO	A	255	19.35462	80.09983	12.96135	H_	1	0	0.00000
ATOM	2655	CD	PRO	A	255	18.41823	78.24802	12.25920	C_3	4	0	0.18000
ATOM	2656	HCD	PRO	A	255	17.47393	78.79945	12.29164	H_	1	0	0.00000
ATOM	2657	HCD	PRO	A	255	18.73010	78.11253	11.21972	H_	1	0	0.00000
ATOM	2658	N	VAL	A	256	18.61260	75.69228	16.26152	N_R	3	0	-0.47000
ATOM	2659	HN	VAL	A	256	19.50515	75.38316	16.11423	H_A	1	0	0.31000
ATOM	2660	CA	VAL	A	256	17.90237	75.12444	17.39047	C_3	4	0	0.16000
ATOM	2661	HCA	VAL	A	256	17.14731	75.84277	17.72955	H_	1	0	0.00000
ATOM	2662	C	VAL	A	256	18.80256	74.91405	18.57201	C_R	3	0	0.51000
ATOM	2663	O	VAL	A	256	20.00880	75.24463	18.50087	O_2	1	2	-0.51000
ATOM	2664	CB	VAL	A	256	17.17156	73.81541	16.90092	C_3	4	0	0.00000
ATOM	2665	HCB	VAL	A	256	16.88597	73.97263	15.85583	H_	1	0	0.00000
ATOM	2666	CG1	VAL	A	256	18.08085	72.55457	16.91068	C_3	4	0	0.00000
ATOM	2667	HCG1	VAL	A	256	18.36046	72.27733	17.92696	H_	1	0	0.00000
ATOM	2668	HCG1	VAL	A	256	17.56830	71.70729	16.45571	H_	1	0	0.00000
ATOM	2669	HCG1	VAL	A	256	18.98955	72.74836	16.34766	H_	1	0	0.00000
ATOM	2670	CG2	VAL	A	256	15.82945	73.53536	17.63198	C_3	4	0	0.00000
ATOM	2671	HCG2	VAL	A	256	15.15613	74.38801	17.52149	H_	1	0	0.00000

ATOM	2672	HCG2	VAL	A	256	15.33765	72.66260	17.19780	H_	1	0	0.00000
ATOM	2673	HCG2	VAL	A	256	15.97950	73.34341	18.69305	H_	1	0	0.00000
ATOM	2674	N	TYR	A	257	18.33385	74.33350	19.70608	N_R	3	0	-0.47000
ATOM	2675	HN	TYR	A	257	17.38804	74.14366	19.74340	H_A	1	0	0.31000
ATOM	2676	CA	TYR	A	257	19.10054	73.93601	20.85642	C_3	4	0	0.16000
ATOM	2677	HCA	TYR	A	257	20.15836	74.17241	20.70539	H_	1	0	0.00000
ATOM	2678	C	TYR	A	257	18.97827	72.46576	21.07495	C_R	3	0	0.51000
ATOM	2679	O	TYR	A	257	17.88155	71.97745	21.43578	O_2	1	2	-0.51000
ATOM	2680	CB	TYR	A	257	18.60791	74.74685	22.09275	C_3	4	0	0.00000
ATOM	2681	HC	TYR	A	257	17.53128	74.59077	22.20654	H_	1	0	0.00000
ATOM	2682	HC	TYR	A	257	18.74467	75.81177	21.88981	H_	1	0	0.00000
ATOM	2683	CG	TYR	A	257	19.31158	74.43777	23.37108	C_R	3	0	0.00000
ATOM	2684	CD1	TYR	A	257	20.68893	74.72299	23.51505	C_R	3	0	0.00000
ATOM	2685	HCD1	TYR	A	257	21.21476	75.10675	22.72755	H_	1	0	0.00000
ATOM	2686	CD2	TYR	A	257	18.62109	73.88242	24.47507	C_R	3	0	0.00000
ATOM	2687	HCD2	TYR	A	257	17.62763	73.65044	24.40170	H_	1	0	0.00000
ATOM	2688	CE1	TYR	A	257	21.35131	74.49656	24.73652	C_R	3	0	0.00000
ATOM	2689	HCE1	TYR	A	257	22.34635	74.71809	24.82119	H_	1	0	0.00000
ATOM	2690	CE2	TYR	A	257	19.28291	73.65356	25.69735	C_R	3	0	0.00000
ATOM	2691	HCE2	TYR	A	257	18.76767	73.26150	26.48803	H_	1	0	0.00000
ATOM	2692	CZ	TYR	A	257	20.64417	73.97979	25.83686	C_R	3	0	0.11000
ATOM	2693	OH	TYR	A	257	21.26772	73.81095	27.02500	O_R	2	2	-0.54000
ATOM	2694	HOH	TYR	A	257	22.20898	74.05464	27.11454	H_A	1	0	0.43000
ATOM	2695	N	PHE	A	258	20.06056	71.66958	20.91710	N_R	3	0	-0.47000
ATOM	2696	HN	PHE	A	258	20.84129	72.07943	20.50830	H_A	1	0	0.31000
ATOM	2697	CA	PHE	A	258	20.21602	70.31753	21.38250	C_3	4	0	0.16000
ATOM	2698	HCA	PHE	A	258	19.36627	70.03031	22.00141	H_	1	0	0.00000
ATOM	2699	C	PHE	A	258	21.46187	70.34269	22.21266	C_R	3	0	0.51000
ATOM	2700	O	PHE	A	258	22.53936	70.46875	21.58386	O_2	1	2	-0.51000
ATOM	2701	CB	PHE	A	258	20.30289	69.29961	20.20611	C_3	4	0	0.00000
ATOM	2702	HC	PHE	A	258	20.80574	68.38745	20.54175	H_	1	0	0.00000
ATOM	2703	HC	PHE	A	258	20.92486	69.72993	19.42042	H_	1	0	0.00000
ATOM	2704	CG	PHE	A	258	18.98312	68.90095	19.64811	C_R	3	0	0.00000
ATOM	2705	CD1	PHE	A	258	18.10588	68.08836	20.40772	C_R	3	0	0.00000
ATOM	2706	HCD1	PHE	A	258	18.36208	67.79330	21.35338	H_	1	0	0.00000
ATOM	2707	CD2	PHE	A	258	18.59993	69.27021	18.33617	C_R	3	0	0.00000
ATOM	2708	HCD2	PHE	A	258	19.22061	69.83909	17.75599	H_	1	0	0.00000
ATOM	2709	CE1	PHE	A	258	16.88064	67.65391	19.86876	C_R	3	0	0.00000
ATOM	2710	HCE1	PHE	A	258	16.26053	67.05939	20.42328	H_	1	0	0.00000
ATOM	2711	CE2	PHE	A	258	17.37243	68.83851	17.79866	C_R	3	0	0.00000
ATOM	2712	HCE2	PHE	A	258	17.10940	69.10315	16.84684	H_	1	0	0.00000
ATOM	2713	CZ	PHE	A	258	16.51492	68.02781	18.56345	C_R	3	0	0.00000
ATOM	2714	HCZ	PHE	A	258	15.62913	67.70490	18.16834	H_	1	0	0.00000
ATOM	2715	N	PRO	A	259	21.50724	70.31026	23.58135	N_R	3	0	-0.29000
ATOM	2716	CA	PRO	A	259	22.66693	70.66868	24.36977	C_3	4	0	0.11000
ATOM	2717	HCA	PRO	A	259	22.67462	71.76423	24.40740	H_	1	0	0.00000
ATOM	2718	C	PRO	A	259	23.99711	70.21449	23.95251	C_2	3	0	0.51000
ATOM	2719	O	PRO	A	259	24.94645	70.98630	23.98776	O_2	1	2	-0.51000
ATOM	2720	CB	PRO	A	259	22.33383	70.15528	25.78533	C_3	4	0	0.00000
ATOM	2721	HC	PRO	A	259	22.73768	70.83327	26.54026	H_	1	0	0.00000
ATOM	2722	HC	PRO	A	259	22.72699	69.14631	25.94721	H_	1	0	0.00000
ATOM	2723	CG	PRO	A	259	20.80451	70.11098	25.85919	C_3	4	0	0.00000
ATOM	2724	HCG	PRO	A	259	20.42185	71.01015	26.34702	H_	1	0	0.00000
ATOM	2725	HCG	PRO	A	259	20.45899	69.23663	26.41451	H_	1	0	0.00000
ATOM	2726	CD	PRO	A	259	20.35344	70.05184	24.39262	C_3	4	0	0.18000
ATOM	2727	HCD	PRO	A	259	19.95036	69.06034	24.16703	H_	1	0	0.00000
ATOM	2728	HCD	PRO	A	259	19.57965	70.80587	24.22128	H_	1	0	0.00000

ATOM	2729	N	PHE	A	260	24.18223	68.96988	23.55330	N_R	3	0	-0.47000
ATOM	2730	HN	PHE	A	260	23.39416	68.41226	23.54477	H_A	1	0	0.31000
ATOM	2731	CA	PHE	A	260	25.42204	68.38093	23.11241	C_3	4	0	0.16000
ATOM	2732	HCA	PHE	A	260	26.16395	68.60181	23.88683	H_	1	0	0.00000
ATOM	2733	C	PHE	A	260	25.98261	68.92682	21.83953	C_R	3	0	0.51000
ATOM	2734	O	PHE	A	260	27.15806	68.60652	21.52984	O_2	1	2	-0.51000
ATOM	2735	CB	PHE	A	260	25.29187	66.82798	23.08302	C_3	4	0	0.00000
ATOM	2736	HC	PHE	A	260	25.15556	66.48242	24.10687	H_	1	0	0.00000
ATOM	2737	HC	PHE	A	260	26.24193	66.39810	22.75396	H_	1	0	0.00000
ATOM	2738	CG	PHE	A	260	24.18069	66.26948	22.26374	C_R	3	0	0.00000
ATOM	2739	CD1	PHE	A	260	22.85575	66.22744	22.76509	C_R	3	0	0.00000
ATOM	2740	HCD1	PHE	A	260	22.64154	66.58914	23.69599	H_	1	0	0.00000
ATOM	2741	CD2	PHE	A	260	24.43558	65.72025	20.98634	C_R	3	0	0.00000
ATOM	2742	HCD2	PHE	A	260	25.38100	65.72425	20.59757	H_	1	0	0.00000
ATOM	2743	CE1	PHE	A	260	21.81116	65.67441	22.00369	C_R	3	0	0.00000
ATOM	2744	HCE1	PHE	A	260	20.85700	65.66128	22.37171	H_	1	0	0.00000
ATOM	2745	CE2	PHE	A	260	23.39717	65.14482	20.23547	C_R	3	0	0.00000
ATOM	2746	HCE2	PHE	A	260	23.60592	64.73378	19.32613	H_	1	0	0.00000
ATOM	2747	CZ	PHE	A	260	22.08473	65.12829	20.74001	C_R	3	0	0.00000
ATOM	2748	HCZ	PHE	A	260	21.32919	64.71447	20.19506	H_	1	0	0.00000
ATOM	2749	N	VAL	A	261	25.28234	69.76381	21.03421	N_R	3	0	-0.47000
ATOM	2750	HN	VAL	A	261	24.37955	69.97532	21.27260	H_A	1	0	0.31000
ATOM	2751	CA	VAL	A	261	25.76358	70.38934	19.83130	C_3	4	0	0.16000
ATOM	2752	HCA	VAL	A	261	26.84400	70.25067	19.77661	H_	1	0	0.00000
ATOM	2753	C	VAL	A	261	25.53499	71.86735	19.84855	C_R	3	0	0.51000
ATOM	2754	O	VAL	A	261	24.40536	72.32584	20.12979	O_2	1	2	-0.51000
ATOM	2755	CB	VAL	A	261	25.16559	69.72431	18.54746	C_3	4	0	0.00000
ATOM	2756	HC	VAL	A	261	25.42717	70.37377	17.71291	H_	1	0	0.00000
ATOM	2757	CG1	VAL	A	261	25.80685	68.34438	18.23409	C_3	4	0	0.00000
ATOM	2758	HCG1	VAL	A	261	25.65197	67.65099	19.05819	H_	1	0	0.00000
ATOM	2759	HCG1	VAL	A	261	25.36949	67.91569	17.33155	H_	1	0	0.00000
ATOM	2760	HCG1	VAL	A	261	26.87647	68.45222	18.06295	H_	1	0	0.00000
ATOM	2761	CG2	VAL	A	261	23.62031	69.59340	18.55756	C_3	4	0	0.00000
ATOM	2762	HCG2	VAL	A	261	23.15243	70.57031	18.67218	H_	1	0	0.00000
ATOM	2763	HCG2	VAL	A	261	23.26709	69.16458	17.62070	H_	1	0	0.00000
ATOM	2764	HCG2	VAL	A	261	23.30006	68.94278	19.37177	H_	1	0	0.00000
ATOM	2765	N	GLU	A	262	26.54043	72.69611	19.48162	N_R	3	0	-0.47000
ATOM	2766	HN	GLU	A	262	27.31351	72.24667	19.15713	H_A	1	0	0.31000
ATOM	2767	CA	GLU	A	262	26.54143	74.13179	19.45054	C_3	4	0	0.16000
ATOM	2768	HCA	GLU	A	262	25.55433	74.45289	19.13612	H_	1	0	0.00000
ATOM	2769	C	GLU	A	262	27.54676	74.61880	18.44934	C_R	3	0	0.51000
ATOM	2770	O	GLU	A	262	28.75677	74.40558	18.71774	O_2	1	2	-0.51000
ATOM	2771	CB	GLU	A	262	26.83769	74.77587	20.84586	C_3	4	0	0.00000
ATOM	2772	HC	GLU	A	262	27.22623	75.79179	20.71188	H_	1	0	0.00000
ATOM	2773	HC	GLU	A	262	27.62689	74.20030	21.33772	H_	1	0	0.00000
ATOM	2774	CG	GLU	A	262	25.62685	74.88810	21.81269	C_3	4	0	-0.10000
ATOM	2775	HCG	GLU	A	262	25.99959	75.27169	22.76578	H_	1	0	0.00000
ATOM	2776	HCG	GLU	A	262	25.22044	73.89514	22.00582	H_	1	0	0.00000
ATOM	2777	CD	GLU	A	262	24.53612	75.78994	21.37260	C_R	3	0	0.62000
ATOM	2778	OE1	GLU	A	262	24.55532	76.41417	20.28513	O_2	1	2	-0.76000
ATOM	2779	OE2	GLU	A	262	23.55943	75.98742	22.12678	O_2	1	2	-0.76000
ATOM	2780	N	PRO	A	263	27.25934	75.30288	17.29415	N_R	3	0	-0.29000
ATOM	2781	CA	PRO	A	263	25.95059	75.47235	16.70628	C_3	4	0	0.11000
ATOM	2782	HCA	PRO	A	263	25.41778	76.20265	17.32708	H_	1	0	0.00000
ATOM	2783	C	PRO	A	263	25.13555	74.26577	16.53541	C_2	3	0	0.51000
ATOM	2784	O	PRO	A	263	25.65328	73.26551	16.04818	O_2	1	2	-0.51000
ATOM	2785	CB	PRO	A	263	26.22301	76.13560	15.33378	C_3	4	0	0.00000

ATOM	2786	HCB	PRO	A	263	25.41263	76.80649	15.03636	H_	1	0	0.00000
ATOM	2787	HCB	PRO	A	263	26.37566	75.39059	14.54627	H_	1	0	0.00000
ATOM	2788	CG	PRO	A	263	27.53229	76.89811	15.55470	C_3	4	0	0.00000
ATOM	2789	HCG	PRO	A	263	27.32592	77.88136	15.98965	H_	1	0	0.00000
ATOM	2790	HCG	PRO	A	263	28.09474	77.02435	14.62508	H_	1	0	0.00000
ATOM	2791	CD	PRO	A	263	28.27651	76.01030	16.56447	C_3	4	0	0.18000
ATOM	2792	HCD	PRO	A	263	28.92819	75.31365	16.03632	H_	1	0	0.00000
ATOM	2793	HCD	PRO	A	263	28.88503	76.63705	17.22337	H_	1	0	0.00000
ATOM	2794	N	GLY	A	264	23.86114	74.30518	16.89132	N_R	3	0	-0.47000
ATOM	2795	HN	GLY	A	264	23.55873	75.13846	17.28989	H_A	1	0	0.31000
ATOM	2796	CA	GLY	A	264	22.86468	73.27666	16.79466	C_3	4	0	0.16000
ATOM	2797	HCA	GLY	A	264	22.39823	73.18788	17.77677	H_	1	0	0.00000
ATOM	2798	HCA	GLY	A	264	23.31103	72.31090	16.56399	H_	1	0	0.00000
ATOM	2799	C	GLY	A	264	21.80320	73.60244	15.80477	C_R	3	0	0.51000
ATOM	2800	O	GLY	A	264	21.30082	74.75104	15.79017	O_2	1	2	-0.51000
ATOM	2801	N	ALA	A	265	21.37925	72.67523	14.91097	N_R	3	0	-0.47000
ATOM	2802	HN	ALA	A	265	21.75199	71.80417	14.99824	H_A	1	0	0.31000
ATOM	2803	CA	ALA	A	265	20.45721	72.85447	13.82215	C_3	4	0	0.16000
ATOM	2804	HCA	ALA	A	265	19.93949	73.81003	13.93123	H_	1	0	0.00000
ATOM	2805	C	ALA	A	265	19.43238	71.77292	13.69672	C_R	3	0	0.51000
ATOM	2806	O	ALA	A	265	19.74445	70.56680	13.77747	O_2	1	2	-0.51000
ATOM	2807	CB	ALA	A	265	21.26888	72.93039	12.50808	C_3	4	0	0.00000
ATOM	2808	HCB	ALA	A	265	21.83032	72.00753	12.34249	H_	1	0	0.00000
ATOM	2809	HCB	ALA	A	265	20.59509	73.09155	11.66409	H_	1	0	0.00000
ATOM	2810	HCB	ALA	A	265	21.97258	73.76445	12.54721	H_	1	0	0.00000
ATOM	2811	N	GLN	A	266	18.16790	72.10454	13.36996	N_R	3	0	-0.47000
ATOM	2812	HN	GLN	A	266	18.00458	73.04012	13.30076	H_A	1	0	0.31000
ATOM	2813	CA	GLN	A	266	17.05853	71.26111	12.99522	C_3	4	0	0.16000
ATOM	2814	HCA	GLN	A	266	17.11873	70.28271	13.48089	H_	1	0	0.00000
ATOM	2815	C	GLN	A	266	17.07472	71.12467	11.53537	C_2	3	0	0.51000
ATOM	2816	O	GLN	A	266	17.09035	72.16692	10.88763	O_2	1	2	-0.51000
ATOM	2817	CB	GLN	A	266	15.79557	72.01563	13.51646	C_3	4	0	0.00000
ATOM	2818	HCB	GLN	A	266	15.89043	73.05417	13.18810	H_	1	0	0.00000
ATOM	2819	HCB	GLN	A	266	15.83253	72.03422	14.60803	H_	1	0	0.00000
ATOM	2820	CG	GLN	A	266	14.38134	71.49967	13.10840	C_3	4	0	0.00000
ATOM	2821	HCG	GLN	A	266	13.98525	70.84662	13.88897	H_	1	0	0.00000
ATOM	2822	HCG	GLN	A	266	14.43338	70.91837	12.18543	H_	1	0	0.00000
ATOM	2823	CD	GLN	A	266	13.45666	72.64160	12.91492	C_R	3	0	0.55000
ATOM	2824	OE1	GLN	A	266	13.36978	73.59997	13.71845	O_2	1	2	-0.55000
ATOM	2825	NE2	GLN	A	266	12.73236	72.81968	11.81237	N_R	3	0	-0.60000
ATOM	2826	HNE2	GLN	A	266	12.34376	73.67660	11.71757	H_A	1	0	0.30000
ATOM	2827	HNE2	GLN	A	266	12.64352	72.16006	11.13142	H_A	1	0	0.30000
ATOM	2828	N	PHE	A	267	17.09800	69.95556	10.90660	N_R	3	0	-0.47000
ATOM	2829	HN	PHE	A	267	16.99822	69.16882	11.44365	H_A	1	0	0.31000
ATOM	2830	CA	PHE	A	267	17.27427	69.76225	9.48002	C_3	4	0	0.16000
ATOM	2831	HCA	PHE	A	267	17.32985	70.74895	9.02482	H_	1	0	0.00000
ATOM	2832	C	PHE	A	267	16.14718	69.06816	8.78202	C_R	3	0	0.51000
ATOM	2833	O	PHE	A	267	15.64244	68.02250	9.26979	O_2	1	2	-0.51000
ATOM	2834	CB	PHE	A	267	18.66856	69.15709	9.14000	C_3	4	0	0.00000
ATOM	2835	HCB	PHE	A	267	19.43385	69.74780	9.65342	H_	1	0	0.00000
ATOM	2836	HCB	PHE	A	267	18.86044	69.31326	8.07342	H_	1	0	0.00000
ATOM	2837	CG	PHE	A	267	18.88655	67.71783	9.44586	C_R	3	0	0.00000
ATOM	2838	CD1	PHE	A	267	18.62107	66.72615	8.47102	C_R	3	0	0.00000
ATOM	2839	HCD1	PHE	A	267	18.19511	66.98010	7.57672	H_	1	0	0.00000
ATOM	2840	CD2	PHE	A	267	19.43877	67.31564	10.68357	C_R	3	0	0.00000
ATOM	2841	HCD2	PHE	A	267	19.61829	68.00587	11.41631	H_	1	0	0.00000
ATOM	2842	CE1	PHE	A	267	18.96659	65.38219	8.70159	C_R	3	0	0.00000

ATOM	2843	HCE1	PHE	A	267	18.81136	64.68240	7.97768	H_	1	0	0.00000
ATOM	2844	CE2	PHE	A	267	19.75927	65.96512	10.91919	C_R	3	0	0.00000
ATOM	2845	HCE2	PHE	A	267	20.14906	65.67641	11.81623	H_	1	0	0.00000
ATOM	2846	CZ	PHE	A	267	19.54829	65.00330	9.92079	C_R	3	0	0.00000
ATOM	2847	HCZ	PHE	A	267	19.81653	64.03204	10.08367	H_	1	0	0.00000
ATOM	2848	N	ALA	A	268	15.72502	69.58181	7.59139	N_R	3	0	-0.47000
ATOM	2849	HN	ALA	A	268	16.17756	70.38104	7.31820	H_A	1	0	0.31000
ATOM	2850	CA	ALA	A	268	14.70966	69.05137	6.71140	C_3	4	0	0.16000
ATOM	2851	HCA	ALA	A	268	14.35895	68.10048	7.11853	H_	1	0	0.00000
ATOM	2852	C	ALA	A	268	15.17125	68.80959	5.32225	C_R	3	0	0.51000
ATOM	2853	O	ALA	A	268	16.15489	69.44504	4.87182	O_2	1	2	-0.51000
ATOM	2854	CB	ALA	A	268	13.50480	70.01814	6.58957	C_3	4	0	0.00000
ATOM	2855	HCB	ALA	A	268	13.72416	70.85098	5.93425	H_	1	0	0.00000
ATOM	2856	HCB	ALA	A	268	12.63204	69.52198	6.16887	H_	1	0	0.00000
ATOM	2857	HCB	ALA	A	268	13.25075	70.40679	7.56226	H_	1	0	0.00000
ATOM	2858	N	VAL	A	269	14.41603	67.99360	4.54776	N_R	3	0	-0.47000
ATOM	2859	HN	VAL	A	269	13.66404	67.61191	5.00418	H_A	1	0	0.31000
ATOM	2860	CA	VAL	A	269	14.62364	67.65122	3.16497	C_3	4	0	0.16000
ATOM	2861	HCA	VAL	A	269	15.45641	68.24827	2.78052	H_	1	0	0.00000
ATOM	2862	C	VAL	A	269	13.43487	67.96283	2.31243	C_R	3	0	0.51000
ATOM	2863	O	VAL	A	269	12.28721	67.64432	2.70010	O_2	1	2	-0.51000
ATOM	2864	CB	VAL	A	269	15.06563	66.15154	3.05279	C_3	4	0	0.00000
ATOM	2865	HCB	VAL	A	269	15.97364	66.04175	3.65711	H_	1	0	0.00000
ATOM	2866	CG1	VAL	A	269	14.03867	65.12469	3.60391	C_3	4	0	0.00000
ATOM	2867	HCG1	VAL	A	269	13.11576	65.15400	3.02659	H_	1	0	0.00000
ATOM	2868	HCG1	VAL	A	269	14.44325	64.11352	3.54563	H_	1	0	0.00000
ATOM	2869	HCG1	VAL	A	269	13.81303	65.33639	4.64724	H_	1	0	0.00000
ATOM	2870	CG2	VAL	A	269	15.45248	65.77457	1.59982	C_3	4	0	0.00000
ATOM	2871	HCG2	VAL	A	269	16.17589	66.49231	1.22185	H_	1	0	0.00000
ATOM	2872	HCG2	VAL	A	269	15.89223	64.77728	1.56594	H_	1	0	0.00000
ATOM	2873	HCG2	VAL	A	269	14.58043	65.79092	0.94741	H_	1	0	0.00000
ATOM	2874	N	TRP	A	270	13.58025	68.55296	1.09935	N_R	3	0	-0.47000
ATOM	2875	HN	TRP	A	270	14.46054	68.83884	0.85882	H_A	1	0	0.31000
ATOM	2876	CA	TRP	A	270	12.54768	68.72384	0.10939	C_3	4	0	0.16000
ATOM	2877	HCA	TRP	A	270	11.64724	69.09274	0.60547	H_	1	0	0.00000
ATOM	2878	C	TRP	A	270	12.24434	67.44815	-0.60299	C_R	3	0	0.51000
ATOM	2879	O	TRP	A	270	13.18148	66.81693	-1.14480	O_2	1	2	-0.51000
ATOM	2880	CB	TRP	A	270	12.99034	69.81352	-0.91030	C_3	4	0	0.00000
ATOM	2881	HCB	TRP	A	270	13.94412	69.51198	-1.34908	H_	1	0	0.00000
ATOM	2882	HCB	TRP	A	270	13.15500	70.75697	-0.38840	H_	1	0	0.00000
ATOM	2883	CG	TRP	A	270	12.01569	70.05659	-2.00200	C_R	3	0	-0.03000
ATOM	2884	CD1	TRP	A	270	12.16200	69.67939	-3.33918	C_R	3	0	0.15000
ATOM	2885	HCD1	TRP	A	270	12.97118	69.20357	-3.73528	H_	1	0	0.00000
ATOM	2886	CD2	TRP	A	270	10.76909	70.67654	-1.92645	C_R	3	0	-0.02000
ATOM	2887	NE1	TRP	A	270	11.06496	70.02750	-4.03128	N_R	3	0	-0.61000
ATOM	2888	HNE1	TRP	A	270	10.92228	69.86088	-4.97849	H_A	1	0	0.38000
ATOM	2889	CE2	TRP	A	270	10.20262	70.62918	-3.20106	C_R	3	0	0.13000
ATOM	2890	CE3	TRP	A	270	10.08511	71.28175	-0.85704	C_R	3	0	0.00000
ATOM	2891	HCE3	TRP	A	270	10.49963	71.32080	0.07323	H_	1	0	0.00000
ATOM	2892	CZ2	TRP	A	270	8.92840	71.16397	-3.45444	C_R	3	0	0.00000
ATOM	2893	HCZ2	TRP	A	270	8.51843	71.11649	-4.38932	H_	1	0	0.00000
ATOM	2894	CZ3	TRP	A	270	8.81024	71.83568	-1.09876	C_R	3	0	0.00000
ATOM	2895	HCZ3	TRP	A	270	8.29954	72.28271	-0.33468	H_	1	0	0.00000
ATOM	2896	CH2	TRP	A	270	8.23269	71.77129	-2.38738	C_R	3	0	0.00000
ATOM	2897	HCH2	TRP	A	270	7.30453	72.16807	-2.54827	H_	1	0	0.00000
ATOM	2898	N	TRP	A	271	10.96227	67.03300	-0.73276	N_R	3	0	-0.47000
ATOM	2899	HN	TRP	A	271	10.29681	67.56029	-0.30326	H_A	1	0	0.31000

ATOM	2900	CA	TRP	A	271	10.47403	65.90118	-1.46608	C_3	4	0	0.16000
ATOM	2901	HCA	TRP	A	271	11.31738	65.28667	-1.78096	H_	1	0	0.00000
ATOM	2902	C	TRP	A	271	9.70066	66.38716	-2.65883	C_R	3	0	0.51000
ATOM	2903	O	TRP	A	271	8.58473	66.93104	-2.42886	O_2	1	2	-0.51000
ATOM	2904	CB	TRP	A	271	9.64051	65.00626	-0.50359	C_3	4	0	0.00000
ATOM	2905	HCB	TRP	A	271	8.81310	65.58618	-0.08853	H_	1	0	0.00000
ATOM	2906	HCB	TRP	A	271	10.28747	64.72637	0.33007	H_	1	0	0.00000
ATOM	2907	CG	TRP	A	271	9.13260	63.74118	-1.09016	C_R	3	0	-0.03000
ATOM	2908	CD1	TRP	A	271	9.85765	62.83823	-1.87222	C_R	3	0	0.15000
ATOM	2909	HCD1	TRP	A	271	10.81915	62.96249	-2.18288	H_	1	0	0.00000
ATOM	2910	CD2	TRP	A	271	7.87248	63.15920	-0.93502	C_R	3	0	-0.02000
ATOM	2911	NE1	TRP	A	271	9.09926	61.76931	-2.15926	N_R	3	0	-0.61000
ATOM	2912	HNE1	TRP	A	271	9.37712	61.00290	-2.68983	H_A	1	0	0.38000
ATOM	2913	CE2	TRP	A	271	7.89531	61.93076	-1.59707	C_R	3	0	0.13000
ATOM	2914	CE3	TRP	A	271	6.71512	63.57711	-0.25284	C_R	3	0	0.00000
ATOM	2915	HCE3	TRP	A	271	6.69404	64.46400	0.24657	H_	1	0	0.00000
ATOM	2916	CZ2	TRP	A	271	6.77924	61.07692	-1.60578	C_R	3	0	0.00000
ATOM	2917	HCZ2	TRP	A	271	6.81159	60.17897	-2.09251	H_	1	0	0.00000
ATOM	2918	CZ3	TRP	A	271	5.58360	62.73276	-0.25476	C_R	3	0	0.00000
ATOM	2919	HCZ3	TRP	A	271	4.73701	63.01739	0.24049	H_	1	0	0.00000
ATOM	2920	CH2	TRP	A	271	5.61508	61.49083	-0.92668	C_R	3	0	0.00000
ATOM	2921	HCH2	TRP	A	271	4.79030	60.88721	-0.91829	H_	1	0	0.00000
ATOM	2922	N	PRO	A	272	10.16716	66.30952	-3.95019	N_R	3	0	-0.29000
ATOM	2923	CA	PRO	A	272	9.40902	66.66893	-5.12892	C_3	4	0	0.11000
ATOM	2924	HCA	PRO	A	272	9.17828	67.73841	-5.04432	H_	1	0	0.00000
ATOM	2925	C	PRO	A	272	8.17939	65.91743	-5.37726	C_2	3	0	0.51000
ATOM	2926	O	PRO	A	272	7.17066	66.53911	-5.67597	O_2	1	2	-0.51000
ATOM	2927	CB	PRO	A	272	10.37955	66.49351	-6.32807	C_3	4	0	0.00000
ATOM	2928	HCB	PRO	A	272	10.26952	67.29852	-7.06013	H_	1	0	0.00000
ATOM	2929	HCB	PRO	A	272	10.24557	65.53430	-6.83996	H_	1	0	0.00000
ATOM	2930	CG	PRO	A	272	11.76619	66.51303	-5.68581	C_3	4	0	0.00000
ATOM	2931	HCG	PRO	A	272	12.11914	67.54363	-5.60116	H_	1	0	0.00000
ATOM	2932	HCG	PRO	A	272	12.49429	65.92458	-6.25031	H_	1	0	0.00000
ATOM	2933	CD	PRO	A	272	11.50689	65.92290	-4.29414	C_3	4	0	0.18000
ATOM	2934	HCD	PRO	A	272	11.58076	64.83237	-4.31833	H_	1	0	0.00000
ATOM	2935	HCD	PRO	A	272	12.25508	66.32743	-3.60958	H_	1	0	0.00000
ATOM	2936	N	GLU	A	273	8.14952	64.59626	-5.32745	N_R	3	0	-0.47000
ATOM	2937	HN	GLU	A	273	8.98346	64.15941	-5.10083	H_A	1	0	0.31000
ATOM	2938	CA	GLU	A	273	7.04687	63.73411	-5.69806	C_3	4	0	0.16000
ATOM	2939	HCA	GLU	A	273	6.96695	63.77418	-6.78910	H_	1	0	0.00000
ATOM	2940	C	GLU	A	273	5.73541	64.14420	-5.11376	C_R	3	0	0.51000
ATOM	2941	O	GLU	A	273	4.70928	64.19211	-5.83181	O_2	1	2	-0.51000
ATOM	2942	CB	GLU	A	273	7.33485	62.25200	-5.30842	C_3	4	0	0.00000
ATOM	2943	HCB	GLU	A	273	6.53470	61.61767	-5.70318	H_	1	0	0.00000
ATOM	2944	HCB	GLU	A	273	7.29613	62.16742	-4.22533	H_	1	0	0.00000
ATOM	2945	CG	GLU	A	273	8.69698	61.66521	-5.77159	C_3	4	0	-0.10000
ATOM	2946	HCG	GLU	A	273	8.78393	60.63897	-5.40562	H_	1	0	0.00000
ATOM	2947	HCG	GLU	A	273	9.51479	62.23148	-5.31928	H_	1	0	0.00000
ATOM	2948	CD	GLU	A	273	8.84593	61.64530	-7.23736	C_R	3	0	0.62000
ATOM	2949	OE1	GLU	A	273	8.08107	60.95047	-7.94235	O_2	1	2	-0.76000
ATOM	2950	OE2	GLU	A	273	9.72580	62.34047	-7.79069	O_2	1	2	-0.76000
ATOM	2951	N	GLY	A	274	5.67688	64.52184	-3.81463	N_R	3	0	-0.47000
ATOM	2952	HN	GLY	A	274	6.50331	64.45918	-3.31354	H_A	1	0	0.31000
ATOM	2953	CA	GLY	A	274	4.53137	65.05111	-3.13760	C_3	4	0	0.16000
ATOM	2954	HCA	GLY	A	274	4.44563	64.51099	-2.19496	H_	1	0	0.00000
ATOM	2955	HCA	GLY	A	274	3.60597	64.87788	-3.69218	H_	1	0	0.00000
ATOM	2956	C	GLY	A	274	4.63358	66.50339	-2.85075	C_R	3	0	0.51000

ATOM	2957	O	GLY	A	274	3.86195	66.99527	-1.99223	O_2	1	2	-0.51000
ATOM	2958	N	GLY	A	275	5.51078	67.30997	-3.49429	N_R	3	0	-0.47000
ATOM	2959	HN	GLY	A	275	6.05282	66.93211	-4.18387	H_A	1	0	0.31000
ATOM	2960	CA	GLY	A	275	5.64287	68.72678	-3.35787	C_3	4	0	0.16000
ATOM	2961	HCA	GLY	A	275	4.81159	69.18329	-3.90193	H_	1	0	0.00000
ATOM	2962	HCA	GLY	A	275	6.56065	69.02126	-3.86772	H_	1	0	0.00000
ATOM	2963	C	GLY	A	275	5.69881	69.25207	-1.97522	C_R	3	0	0.51000
ATOM	2964	O	GLY	A	275	4.81816	70.07542	-1.62604	O_2	1	2	-0.51000
ATOM	2965	N	LYS	A	276	6.65365	68.85642	-1.09286	N_R	3	0	-0.47000
ATOM	2966	HN	LYS	A	276	7.31448	68.23084	-1.42356	H_A	1	0	0.31000
ATOM	2967	CA	LYS	A	276	6.66973	69.30042	0.29052	C_3	4	0	0.16000
ATOM	2968	HCA	LYS	A	276	6.45203	70.37383	0.28339	H_	1	0	0.00000
ATOM	2969	C	LYS	A	276	7.97364	69.20132	1.00126	C_R	3	0	0.51000
ATOM	2970	O	LYS	A	276	8.91643	68.54871	0.51011	O_2	1	2	-0.51000
ATOM	2971	CB	LYS	A	276	5.53438	68.60887	1.11454	C_3	4	0	0.00000
ATOM	2972	HC	LYS	A	276	4.57152	68.85892	0.66776	H_	1	0	0.00000
ATOM	2973	HC	LYS	A	276	5.52197	69.02622	2.12546	H_	1	0	0.00000
ATOM	2974	CG	LYS	A	276	5.65385	67.06353	1.21205	C_3	4	0	0.00000
ATOM	2975	HCG	LYS	A	276	6.62453	66.82781	1.65513	H_	1	0	0.00000
ATOM	2976	HCG	LYS	A	276	5.63861	66.63373	0.20870	H_	1	0	0.00000
ATOM	2977	CD	LYS	A	276	4.54757	66.39954	2.08507	C_3	4	0	0.00000
ATOM	2978	HCD	LYS	A	276	4.27248	67.06371	2.90797	H_	1	0	0.00000
ATOM	2979	HCD	LYS	A	276	4.96813	65.49740	2.53683	H_	1	0	0.00000
ATOM	2980	CE	LYS	A	276	3.26372	65.96049	1.33522	C_3	4	0	0.31000
ATOM	2981	HCE	LYS	A	276	2.55171	65.56137	2.06152	H_	1	0	0.00000
ATOM	2982	HCE	LYS	A	276	3.50511	65.16427	0.62856	H_	1	0	0.00000
ATOM	2983	NZ	LYS	A	276	2.59524	67.02915	0.58840	N_3	4	0	-0.30000
ATOM	2984	HNZ	LYS	A	276	3.08491	67.15041	-0.28106	H_A	1	0	0.33000
ATOM	2985	HNZ	LYS	A	276	1.64554	66.73489	0.35962	H_A	1	0	0.33000
ATOM	2986	HNZ	LYS	A	276	2.56886	67.89637	1.12624	H_A	1	0	0.33000
ATOM	2987	N	TRP	A	277	8.11833	69.81017	2.20304	N_R	3	0	-0.47000
ATOM	2988	HN	TRP	A	277	7.35287	70.30686	2.52679	H_A	1	0	0.31000
ATOM	2989	CA	TRP	A	277	9.25126	69.74163	3.08545	C_3	4	0	0.16000
ATOM	2990	HCA	TRP	A	277	10.16193	69.51051	2.52835	H_	1	0	0.00000
ATOM	2991	C	TRP	A	277	9.03392	68.69849	4.12639	C_R	3	0	0.51000
ATOM	2992	O	TRP	A	277	7.96342	68.71994	4.78083	O_2	1	2	-0.51000
ATOM	2993	CB	TRP	A	277	9.44312	71.10070	3.81986	C_3	4	0	0.00000
ATOM	2994	HC	TRP	A	277	10.08155	70.94707	4.69445	H_	1	0	0.00000
ATOM	2995	HC	TRP	A	277	8.47435	71.44778	4.19215	H_	1	0	0.00000
ATOM	2996	CG	TRP	A	277	10.07775	72.18228	3.03741	C_R	3	0	-0.03000
ATOM	2997	CD1	TRP	A	277	9.48743	73.38515	2.64191	C_R	3	0	0.15000
ATOM	2998	HCD1	TRP	A	277	8.51173	73.64784	2.78902	H_	1	0	0.00000
ATOM	2999	CD2	TRP	A	277	11.41063	72.26840	2.63796	C_R	3	0	-0.02000
ATOM	3000	NE1	TRP	A	277	10.41274	74.16693	2.05864	N_R	3	0	-0.61000
ATOM	3001	HNE1	TRP	A	277	10.25327	75.05460	1.69535	H_A	1	0	0.38000
ATOM	3002	CE2	TRP	A	277	11.57889	73.50266	2.01040	C_R	3	0	0.13000
ATOM	3003	CE3	TRP	A	277	12.49336	71.38517	2.79607	C_R	3	0	0.00000
ATOM	3004	HCE3	TRP	A	277	12.37937	70.49859	3.28854	H_	1	0	0.00000
ATOM	3005	CZ2	TRP	A	277	12.82159	73.88349	1.47440	C_R	3	0	0.00000
ATOM	3006	HCZ2	TRP	A	277	12.93557	74.78556	1.00834	H_	1	0	0.00000
ATOM	3007	CZ3	TRP	A	277	13.74543	71.75392	2.26283	C_R	3	0	0.00000
ATOM	3008	HCZ3	TRP	A	277	14.53805	71.11896	2.35780	H_	1	0	0.00000
ATOM	3009	CH2	TRP	A	277	13.90842	72.99191	1.60062	C_R	3	0	0.00000
ATOM	3010	HCH2	TRP	A	277	14.81999	73.24546	1.21484	H_	1	0	0.00000
ATOM	3011	N	LEU	A	278	10.00055	67.79585	4.41176	N_R	3	0	-0.47000
ATOM	3012	HN	LEU	A	278	10.77569	67.78998	3.85238	H_A	1	0	0.31000
ATOM	3013	CA	LEU	A	278	9.97357	66.82429	5.46796	C_3	4	0	0.16000

ATOM	3014	HCA	LEU	A	278	8.99852	66.81159	5.96174	H_	1	0	0.00000
ATOM	3015	C	LEU	A	278	11.00179	67.16701	6.48461	C_R	3	0	0.51000
ATOM	3016	O	LEU	A	278	12.21246	67.04149	6.17928	O_2	1	2	-0.51000
ATOM	3017	CB	LEU	A	278	10.22752	65.39303	4.90064	C_3	4	0	0.00000
ATOM	3018	HCB	LEU	A	278	10.03989	64.66392	5.69663	H_	1	0	0.00000
ATOM	3019	HCB	LEU	A	278	11.28207	65.30471	4.63266	H_	1	0	0.00000
ATOM	3020	CG	LEU	A	278	9.40291	64.99961	3.63767	C_3	4	0	0.00000
ATOM	3021	HCG	LEU	A	278	9.57553	65.74545	2.85544	H_	1	0	0.00000
ATOM	3022	CD1	LEU	A	278	9.91295	63.64636	3.07408	C_3	4	0	0.00000
ATOM	3023	HCD1	LEU	A	278	9.84686	62.86602	3.83292	H_	1	0	0.00000
ATOM	3024	HCD1	LEU	A	278	9.32332	63.35378	2.20659	H_	1	0	0.00000
ATOM	3025	HCD1	LEU	A	278	10.95373	63.73016	2.75817	H_	1	0	0.00000
ATOM	3026	CD2	LEU	A	278	7.87908	64.96030	3.92249	C_3	4	0	0.00000
ATOM	3027	HCD2	LEU	A	278	7.51511	65.94671	4.20958	H_	1	0	0.00000
ATOM	3028	HCD2	LEU	A	278	7.33748	64.65535	3.02794	H_	1	0	0.00000
ATOM	3029	HCD2	LEU	A	278	7.65514	64.26068	4.72892	H_	1	0	0.00000
ATOM	3030	N	GLU	A	279	10.64377	67.58920	7.72215	N_R	3	0	-0.47000
ATOM	3031	HN	GLU	A	279	9.69956	67.72575	7.88615	H_A	1	0	0.31000
ATOM	3032	CA	GLU	A	279	11.53307	67.75889	8.84472	C_3	4	0	0.16000
ATOM	3033	HCA	GLU	A	279	12.36617	68.39476	8.55164	H_	1	0	0.00000
ATOM	3034	C	GLU	A	279	12.06901	66.42777	9.23635	C_R	3	0	0.51000
ATOM	3035	O	GLU	A	279	11.24118	65.52611	9.51454	O_2	1	2	-0.51000
ATOM	3036	CB	GLU	A	279	10.80719	68.45767	10.03339	C_3	4	0	0.00000
ATOM	3037	HCB	GLU	A	279	11.50861	68.54681	10.86895	H_	1	0	0.00000
ATOM	3038	HCB	GLU	A	279	9.98295	67.82337	10.37131	H_	1	0	0.00000
ATOM	3039	CG	GLU	A	279	10.22445	69.86909	9.72861	C_3	4	0	-0.10000
ATOM	3040	HCG	GLU	A	279	9.77459	70.25541	10.64562	H_	1	0	0.00000
ATOM	3041	HCG	GLU	A	279	9.42601	69.77841	8.98783	H_	1	0	0.00000
ATOM	3042	CD	GLU	A	279	11.20965	70.86818	9.26995	C_R	3	0	0.62000
ATOM	3043	OE1	GLU	A	279	12.35854	70.92706	9.75493	O_2	1	2	-0.76000
ATOM	3044	OE2	GLU	A	279	10.94620	71.70129	8.37300	O_2	1	2	-0.76000
ATOM	3045	N	LEU	A	280	13.39819	66.15764	9.20232	N_R	3	0	-0.47000
ATOM	3046	HN	LEU	A	280	14.03136	66.87710	9.15763	H_A	1	0	0.31000
ATOM	3047	CA	LEU	A	280	13.96698	64.83881	9.18450	C_3	4	0	0.16000
ATOM	3048	HCA	LEU	A	280	13.16858	64.09699	9.13807	H_	1	0	0.00000
ATOM	3049	C	LEU	A	280	14.74956	64.57862	10.41744	C_R	3	0	0.51000
ATOM	3050	O	LEU	A	280	14.60652	63.46933	10.98870	O_2	1	2	-0.51000
ATOM	3051	CB	LEU	A	280	14.83186	64.68075	7.89223	C_3	4	0	0.00000
ATOM	3052	HCB	LEU	A	280	15.78676	65.19474	8.04770	H_	1	0	0.00000
ATOM	3053	HCB	LEU	A	280	14.33676	65.19728	7.06402	H_	1	0	0.00000
ATOM	3054	CG	LEU	A	280	15.09614	63.20325	7.44540	C_3	4	0	0.00000
ATOM	3055	HCG	LEU	A	280	15.40413	62.62840	8.32224	H_	1	0	0.00000
ATOM	3056	CD1	LEU	A	280	13.82921	62.52159	6.85204	C_3	4	0	0.00000
ATOM	3057	HCD1	LEU	A	280	13.45942	63.07323	5.98647	H_	1	0	0.00000
ATOM	3058	HCD1	LEU	A	280	14.06769	61.50822	6.53693	H_	1	0	0.00000
ATOM	3059	HCD1	LEU	A	280	13.02892	62.45257	7.58710	H_	1	0	0.00000
ATOM	3060	CD2	LEU	A	280	16.25639	63.11615	6.41640	C_3	4	0	0.00000
ATOM	3061	HCD2	LEU	A	280	17.17708	63.49498	6.85268	H_	1	0	0.00000
ATOM	3062	HCD2	LEU	A	280	16.43246	62.07995	6.12245	H_	1	0	0.00000
ATOM	3063	HCD2	LEU	A	280	16.02980	63.70023	5.52385	H_	1	0	0.00000
ATOM	3064	N	GLY	A	281	15.60530	65.50818	10.91439	N_R	3	0	-0.47000
ATOM	3065	HN	GLY	A	281	15.67381	66.34643	10.44330	H_A	1	0	0.31000
ATOM	3066	CA	GLY	A	281	16.43621	65.24725	12.05755	C_3	4	0	0.16000
ATOM	3067	HCA	GLY	A	281	17.25524	64.61579	11.71423	H_	1	0	0.00000
ATOM	3068	HCA	GLY	A	281	15.87290	64.68590	12.80805	H_	1	0	0.00000
ATOM	3069	C	GLY	A	281	17.01700	66.40647	12.76554	C_R	3	0	0.51000
ATOM	3070	O	GLY	A	281	16.69715	67.58237	12.47334	O_2	1	2	-0.51000

ATOM	3071	N	GLY	A	282	17.92317	66.13667	13.73108	N_R	3	0	-0.47000
ATOM	3072	HN	GLY	A	282	18.16751	65.21047	13.82043	H_A	1	0	0.31000
ATOM	3073	CA	GLY	A	282	18.58329	67.07098	14.59211	C_3	4	0	0.16000
ATOM	3074	HCA	GLY	A	282	18.29596	66.82722	15.61483	H_	1	0	0.00000
ATOM	3075	HCA	GLY	A	282	18.27810	68.10111	14.39818	H_	1	0	0.00000
ATOM	3076	C	GLY	A	282	20.05082	66.93724	14.47172	C_R	3	0	0.51000
ATOM	3077	O	GLY	A	282	20.54708	65.79304	14.55366	O_2	1	2	-0.51000
ATOM	3078	N	ALA	A	283	20.85816	67.99780	14.23722	N_R	3	0	-0.47000
ATOM	3079	HN	ALA	A	283	20.44881	68.84983	14.12530	H_A	1	0	0.31000
ATOM	3080	CA	ALA	A	283	22.28447	67.94796	14.06482	C_3	4	0	0.16000
ATOM	3081	HCA	ALA	A	283	22.68026	67.05386	14.54336	H_	1	0	0.00000
ATOM	3082	C	ALA	A	283	23.02823	69.08692	14.65293	C_R	3	0	0.51000
ATOM	3083	O	ALA	A	283	22.42069	70.06290	15.13767	O_2	1	2	-0.51000
ATOM	3084	CB	ALA	A	283	22.56753	67.91707	12.54137	C_3	4	0	0.00000
ATOM	3085	HC	ALA	A	283	22.18933	68.82143	12.05891	H_	1	0	0.00000
ATOM	3086	HC	ALA	A	283	23.63624	67.83465	12.34517	H_	1	0	0.00000
ATOM	3087	HC	ALA	A	283	22.08281	67.05998	12.08767	H_	1	0	0.00000
ATOM	3088	N	GLY	A	284	24.37950	69.07330	14.61587	N_R	3	0	-0.47000
ATOM	3089	HN	GLY	A	284	24.75935	68.22151	14.40631	H_A	1	0	0.31000
ATOM	3090	CA	GLY	A	284	25.22328	70.21276	14.79783	C_3	4	0	0.16000
ATOM	3091	HCA	GLY	A	284	24.80333	70.83951	15.57736	H_	1	0	0.00000
ATOM	3092	HCA	GLY	A	284	25.21723	70.79125	13.87194	H_	1	0	0.00000
ATOM	3093	C	GLY	A	284	26.63389	69.92655	15.14291	C_R	3	0	0.51000
ATOM	3094	O	GLY	A	284	27.10934	68.77674	14.98972	O_2	1	2	-0.51000
ATOM	3095	N	MET	A	285	27.39108	70.94449	15.61955	N_R	3	0	-0.47000
ATOM	3096	HN	MET	A	285	26.90864	71.76095	15.78379	H_A	1	0	0.31000
ATOM	3097	CA	MET	A	285	28.80318	70.88745	15.91542	C_3	4	0	0.16000
ATOM	3098	HCA	MET	A	285	29.27255	70.15526	15.25843	H_	1	0	0.00000
ATOM	3099	C	MET	A	285	29.06159	70.47685	17.31932	C_R	3	0	0.51000
ATOM	3100	O	MET	A	285	28.56951	71.15455	18.24562	O_2	1	2	-0.51000
ATOM	3101	CB	MET	A	285	29.48301	72.25489	15.62526	C_3	4	0	0.00000
ATOM	3102	HC	MET	A	285	30.55257	72.17780	15.83797	H_	1	0	0.00000
ATOM	3103	HC	MET	A	285	29.07777	72.99482	16.31643	H_	1	0	0.00000
ATOM	3104	CG	MET	A	285	29.29773	72.79947	14.18400	C_3	4	0	0.04000
ATOM	3105	HCG	MET	A	285	29.90182	73.70069	14.05887	H_	1	0	0.00000
ATOM	3106	HCG	MET	A	285	28.25359	73.08896	14.05351	H_	1	0	0.00000
ATOM	3107	SD	MET	A	285	29.70268	71.63251	12.85573	S_3	2	0	-0.09000
ATOM	3108	CE	MET	A	285	31.48648	71.51653	13.08889	C_3	4	0	0.05000
ATOM	3109	HCE	MET	A	285	31.71207	71.09090	14.06334	H_	1	0	0.00000
ATOM	3110	HCE	MET	A	285	31.89499	70.86359	12.31881	H_	1	0	0.00000
ATOM	3111	HCE	MET	A	285	31.94188	72.50295	13.00521	H_	1	0	0.00000
ATOM	3112	N	VAL	A	286	29.85016	69.41905	17.61492	N_R	3	0	-0.47000
ATOM	3113	HN	VAL	A	286	30.36996	69.07999	16.88538	H_A	1	0	0.31000
ATOM	3114	CA	VAL	A	286	29.97667	68.79701	18.91589	C_3	4	0	0.16000
ATOM	3115	HCA	VAL	A	286	28.98476	68.43343	19.20136	H_	1	0	0.00000
ATOM	3116	C	VAL	A	286	30.42020	69.77049	19.96098	C_R	3	0	0.51000
ATOM	3117	O	VAL	A	286	31.52398	70.35151	19.82366	O_2	1	2	-0.51000
ATOM	3118	CB	VAL	A	286	30.90639	67.53964	18.81022	C_3	4	0	0.00000
ATOM	3119	HC	VAL	A	286	31.85832	67.86825	18.38570	H_	1	0	0.00000
ATOM	3120	CG1	VAL	A	286	31.21115	66.87787	20.18689	C_3	4	0	0.00000
ATOM	3121	HCG1	VAL	A	286	30.28490	66.57167	20.67528	H_	1	0	0.00000
ATOM	3122	HCG1	VAL	A	286	31.84592	66.00018	20.05999	H_	1	0	0.00000
ATOM	3123	HCG1	VAL	A	286	31.74070	67.57186	20.83993	H_	1	0	0.00000
ATOM	3124	CG2	VAL	A	286	30.31923	66.46424	17.84986	C_3	4	0	0.00000
ATOM	3125	HCG2	VAL	A	286	30.16284	66.87192	16.85176	H_	1	0	0.00000
ATOM	3126	HCG2	VAL	A	286	31.00631	65.62259	17.75930	H_	1	0	0.00000
ATOM	3127	HCG2	VAL	A	286	29.36255	66.09669	18.22487	H_	1	0	0.00000

ATOM	3128	N	HSD	A	287	29.63905	70.04062	21.03867	N_R	3	0	-0.47000
ATOM	3129	HN	HSD	A	287	28.82395	69.54607	21.14362	H_A	1	0	0.31000
ATOM	3130	CA	HSD	A	287	29.92169	71.03582	22.03675	C_3	4	0	0.16000
ATOM	3131	HCA	HSD	A	287	30.01054	71.98270	21.50103	H_	1	0	0.00000
ATOM	3132	C	HSD	A	287	31.18402	70.74004	22.80663	C_R	3	0	0.51000
ATOM	3133	O	HSD	A	287	31.23921	69.61976	23.36692	O_2	1	2	-0.51000
ATOM	3134	CB	HSD	A	287	28.67951	71.19275	22.96897	C_3	4	0	0.10000
ATOM	3135	HCB	HSD	A	287	28.42218	70.23414	23.42564	H_	1	0	0.00000
ATOM	3136	HCB	HSD	A	287	27.81881	71.51760	22.37773	H_	1	0	0.00000
ATOM	3137	CG	HSD	A	287	28.91481	72.18496	24.03533	C_R	3	0	0.22000
ATOM	3138	ND1	HSD	A	287	28.65629	73.50174	23.98412	N_R	2	1	-0.70000
ATOM	3139	CD2	HSD	A	287	29.55738	71.93246	25.23921	C_R	3	0	0.04000
ATOM	3140	HCD2	HSD	A	287	29.86741	71.02093	25.56758	H_	1	0	0.00000
ATOM	3141	CE1	HSD	A	287	29.14233	74.05059	25.10558	C_R	3	0	0.38000
ATOM	3142	HCE1	HSD	A	287	29.08985	75.04027	25.34880	H_	1	0	0.00000
ATOM	3143	NE2	HSD	A	287	29.73168	73.10673	25.85029	N_R	3	0	-0.36000
ATOM	3144	HNE2	HSD	A	287	30.20720	73.26809	26.66350	H_A	1	0	0.32000
ATOM	3145	N	PRO	A	288	32.23148	71.60903	22.99526	N_R	3	0	-0.29000
ATOM	3146	CA	PRO	A	288	33.45625	71.31903	23.71742	C_3	4	0	0.11000
ATOM	3147	HCA	PRO	A	288	34.13219	70.85843	22.98909	H_	1	0	0.00000
ATOM	3148	C	PRO	A	288	33.42141	70.47308	24.91236	C_2	3	0	0.51000
ATOM	3149	O	PRO	A	288	34.22395	69.55087	25.01306	O_2	1	2	-0.51000
ATOM	3150	CB	PRO	A	288	34.02840	72.71420	24.05100	C_3	4	0	0.00000
ATOM	3151	HCB	PRO	A	288	35.11653	72.69486	24.16122	H_	1	0	0.00000
ATOM	3152	HCB	PRO	A	288	33.58067	73.12383	24.96289	H_	1	0	0.00000
ATOM	3153	CG	PRO	A	288	33.60020	73.56074	22.84752	C_3	4	0	0.00000
ATOM	3154	HCG	PRO	A	288	34.33534	73.46606	22.04200	H_	1	0	0.00000
ATOM	3155	HCG	PRO	A	288	33.49092	74.61594	23.11232	H_	1	0	0.00000
ATOM	3156	CD	PRO	A	288	32.26128	72.92818	22.42862	C_3	4	0	0.18000
ATOM	3157	HCD	PRO	A	288	31.43474	73.52520	22.82263	H_	1	0	0.00000
ATOM	3158	HCD	PRO	A	288	32.19852	72.89215	21.33740	H_	1	0	0.00000
ATOM	3159	N	LYS	A	289	32.54041	70.66609	25.88228	N_R	3	0	-0.47000
ATOM	3160	HN	LYS	A	289	31.91467	71.39300	25.77583	H_A	1	0	0.31000
ATOM	3161	CA	LYS	A	289	32.46055	69.86472	27.08119	C_3	4	0	0.16000
ATOM	3162	HCA	LYS	A	289	33.44177	69.94936	27.54030	H_	1	0	0.00000
ATOM	3163	C	LYS	A	289	32.21103	68.41074	26.83466	C_R	3	0	0.51000
ATOM	3164	O	LYS	A	289	32.53746	67.59827	27.73066	O_2	1	2	-0.51000
ATOM	3165	CB	LYS	A	289	31.46456	70.43417	28.13369	C_3	4	0	0.00000
ATOM	3166	HCB	LYS	A	289	31.50065	69.80308	29.02754	H_	1	0	0.00000
ATOM	3167	HCB	LYS	A	289	30.45148	70.37651	27.73307	H_	1	0	0.00000
ATOM	3168	CG	LYS	A	289	31.77790	71.89453	28.57208	C_3	4	0	0.00000
ATOM	3169	HCG	LYS	A	289	31.62424	72.56914	27.73358	H_	1	0	0.00000
ATOM	3170	HCG	LYS	A	289	32.83629	71.95915	28.83542	H_	1	0	0.00000
ATOM	3171	CD	LYS	A	289	30.97132	72.40473	29.79955	C_3	4	0	0.00000
ATOM	3172	HCD	LYS	A	289	31.22015	73.45611	29.96374	H_	1	0	0.00000
ATOM	3173	HCD	LYS	A	289	31.31434	71.85117	30.67791	H_	1	0	0.00000
ATOM	3174	CE	LYS	A	289	29.42913	72.26926	29.73168	C_3	4	0	0.31000
ATOM	3175	HCE	LYS	A	289	29.01295	72.53645	30.70618	H_	1	0	0.00000
ATOM	3176	HCE	LYS	A	289	29.14650	71.23442	29.53273	H_	1	0	0.00000
ATOM	3177	NZ	LYS	A	289	28.77982	73.13416	28.73918	N_3	4	0	-0.30000
ATOM	3178	HNZ	LYS	A	289	29.18414	73.05154	27.82633	H_A	1	0	0.33000
ATOM	3179	HNZ	LYS	A	289	27.83044	72.80666	28.62768	H_A	1	0	0.33000
ATOM	3180	HNZ	LYS	A	289	28.79474	74.11138	29.03742	H_A	1	0	0.33000
ATOM	3181	N	VAL	A	290	31.72323	67.94374	25.65883	N_R	3	0	-0.47000
ATOM	3182	HN	VAL	A	290	31.53280	68.56808	24.96144	H_A	1	0	0.31000
ATOM	3183	CA	VAL	A	290	31.58611	66.55799	25.29255	C_3	4	0	0.16000
ATOM	3184	HCA	VAL	A	290	31.13700	66.01059	26.13025	H_	1	0	0.00000

ATOM	3185	C	VAL	A	290	32.94426	66.01552	25.00775	C_R	3	0	0.51000
ATOM	3186	O	VAL	A	290	33.34412	64.99026	25.60465	O_2	1	2	-0.51000
ATOM	3187	CB	VAL	A	290	30.63894	66.40014	24.05598	C_3	4	0	0.00000
ATOM	3188	HCB	VAL	A	290	31.08165	66.94128	23.21594	H_	1	0	0.00000
ATOM	3189	CG1	VAL	A	290	30.49067	64.91460	23.61428	C_3	4	0	0.00000
ATOM	3190	HCG1	VAL	A	290	30.12340	64.30800	24.44124	H_	1	0	0.00000
ATOM	3191	HCG1	VAL	A	290	29.79828	64.82769	22.77591	H_	1	0	0.00000
ATOM	3192	HCG1	VAL	A	290	31.45092	64.50992	23.29300	H_	1	0	0.00000
ATOM	3193	CG2	VAL	A	290	29.23743	67.02387	24.30975	C_3	4	0	0.00000
ATOM	3194	HCG2	VAL	A	290	29.31752	68.08659	24.53793	H_	1	0	0.00000
ATOM	3195	HCG2	VAL	A	290	28.61223	66.92112	23.42320	H_	1	0	0.00000
ATOM	3196	HCG2	VAL	A	290	28.74414	66.53303	25.14627	H_	1	0	0.00000
ATOM	3197	N	PHE	A	291	33.76906	66.66429	24.14893	N_R	3	0	-0.47000
ATOM	3198	HN	PHE	A	291	33.41056	67.44232	23.69979	H_A	1	0	0.31000
ATOM	3199	CA	PHE	A	291	35.14257	66.31669	23.91635	C_3	4	0	0.16000
ATOM	3200	HCA	PHE	A	291	35.16014	65.30730	23.49761	H_	1	0	0.00000
ATOM	3201	C	PHE	A	291	35.92188	66.30769	25.19171	C_R	3	0	0.51000
ATOM	3202	O	PHE	A	291	36.66838	65.33359	25.44995	O_2	1	2	-0.51000
ATOM	3203	CB	PHE	A	291	35.81456	67.28056	22.89618	C_3	4	0	0.00000
ATOM	3204	HCB	PHE	A	291	36.86954	67.01765	22.84014	H_	1	0	0.00000
ATOM	3205	HCB	PHE	A	291	35.77461	68.29540	23.29927	H_	1	0	0.00000
ATOM	3206	CG	PHE	A	291	35.30945	67.25832	21.49118	C_R	3	0	0.00000
ATOM	3207	CD1	PHE	A	291	35.24037	66.05271	20.74970	C_R	3	0	0.00000
ATOM	3208	HCD1	PHE	A	291	35.46311	65.15848	21.18856	H_	1	0	0.00000
ATOM	3209	CD2	PHE	A	291	34.97505	68.46562	20.82951	C_R	3	0	0.00000
ATOM	3210	HCD2	PHE	A	291	35.01022	69.35593	21.32681	H_	1	0	0.00000
ATOM	3211	CE1	PHE	A	291	34.89109	66.05844	19.38651	C_R	3	0	0.00000
ATOM	3212	HCE1	PHE	A	291	34.86000	65.18343	18.85968	H_	1	0	0.00000
ATOM	3213	CE2	PHE	A	291	34.62275	68.47357	19.46717	C_R	3	0	0.00000
ATOM	3214	HCE2	PHE	A	291	34.39605	69.35540	19.00166	H_	1	0	0.00000
ATOM	3215	CZ	PHE	A	291	34.59307	67.26997	18.74321	C_R	3	0	0.00000
ATOM	3216	HCZ	PHE	A	291	34.34933	67.27393	17.75132	H_	1	0	0.00000
ATOM	3217	N	GLN	A	292	35.77389	67.30796	26.09792	N_R	3	0	-0.47000
ATOM	3218	HN	GLN	A	292	35.24120	68.05503	25.81461	H_A	1	0	0.31000
ATOM	3219	CA	GLN	A	292	36.36266	67.30099	27.41692	C_3	4	0	0.16000
ATOM	3220	HCA	GLN	A	292	37.44815	67.26704	27.26731	H_	1	0	0.00000
ATOM	3221	C	GLN	A	292	35.95062	66.12965	28.20407	C_2	3	0	0.51000
ATOM	3222	O	GLN	A	292	36.83220	65.44760	28.70182	O_2	1	2	-0.51000
ATOM	3223	CB	GLN	A	292	36.09150	68.60743	28.21402	C_3	4	0	0.00000
ATOM	3224	HCB	GLN	A	292	36.58449	68.53528	29.18936	H_	1	0	0.00000
ATOM	3225	HCB	GLN	A	292	35.02370	68.68167	28.40708	H_	1	0	0.00000
ATOM	3226	CG	GLN	A	292	36.61239	69.89758	27.51609	C_3	4	0	0.00000
ATOM	3227	HCG	GLN	A	292	36.31746	69.89805	26.46703	H_	1	0	0.00000
ATOM	3228	HCG	GLN	A	292	37.70461	69.90724	27.54296	H_	1	0	0.00000
ATOM	3229	CD	GLN	A	292	36.11400	71.13503	28.15130	C_R	3	0	0.55000
ATOM	3230	OE1	GLN	A	292	35.36989	71.93479	27.54288	O_2	1	2	-0.55000
ATOM	3231	NE2	GLN	A	292	36.43550	71.46459	29.40742	N_R	3	0	-0.60000
ATOM	3232	HNE2	GLN	A	292	36.08882	72.28709	29.78110	H_A	1	0	0.30000
ATOM	3233	HNE2	GLN	A	292	37.01012	70.88904	29.93196	H_A	1	0	0.30000
ATOM	3234	N	ALA	A	293	34.68490	65.77396	28.38089	N_R	3	0	-0.47000
ATOM	3235	HN	ALA	A	293	34.00326	66.37836	28.08546	H_A	1	0	0.31000
ATOM	3236	CA	ALA	A	293	34.22457	64.56212	29.02695	C_3	4	0	0.16000
ATOM	3237	HCA	ALA	A	293	34.48988	64.64865	30.08584	H_	1	0	0.00000
ATOM	3238	C	ALA	A	293	34.82732	63.30880	28.47973	C_R	3	0	0.51000
ATOM	3239	O	ALA	A	293	35.35645	62.49302	29.27227	O_2	1	2	-0.51000
ATOM	3240	CB	ALA	A	293	32.67939	64.47917	28.97452	C_3	4	0	0.00000
ATOM	3241	HCB	ALA	A	293	32.32414	64.45289	27.94515	H_	1	0	0.00000

ATOM	3242	HC	ALA	A	293	32.33026	63.57930	29.48490	H_	1	0	0.00000
ATOM	3243	HC	ALA	A	293	32.23940	65.34494	29.47320	H_	1	0	0.00000
ATOM	3244	N	VAL	A	294	34.85890	63.07324	27.14555	N_R	3	0	-0.47000
ATOM	3245	HN	VAL	A	294	34.38009	63.69798	26.60212	H_A	1	0	0.31000
ATOM	3246	CA	VAL	A	294	35.55580	61.98933	26.48631	C_3	4	0	0.16000
ATOM	3247	HCA	VAL	A	294	35.05397	61.05392	26.75882	H_	1	0	0.00000
ATOM	3248	C	VAL	A	294	36.97747	61.91415	26.94069	C_R	3	0	0.51000
ATOM	3249	O	VAL	A	294	37.41740	60.86921	27.47904	O_2	1	2	-0.51000
ATOM	3250	CB	VAL	A	294	35.46036	62.16479	24.92798	C_3	4	0	0.00000
ATOM	3251	HC	VAL	A	294	35.67636	63.20552	24.69403	H_	1	0	0.00000
ATOM	3252	CG1	VAL	A	294	36.48845	61.33198	24.11022	C_3	4	0	0.00000
ATOM	3253	HCG1	VAL	A	294	36.31311	60.26464	24.23322	H_	1	0	0.00000
ATOM	3254	HCG1	VAL	A	294	36.40717	61.59637	23.06132	H_	1	0	0.00000
ATOM	3255	HCG1	VAL	A	294	37.51205	61.55455	24.40591	H_	1	0	0.00000
ATOM	3256	CG2	VAL	A	294	34.03342	61.88358	24.38700	C_3	4	0	0.00000
ATOM	3257	HCG2	VAL	A	294	33.28907	62.47811	24.91515	H_	1	0	0.00000
ATOM	3258	HCG2	VAL	A	294	33.97339	62.13581	23.32842	H_	1	0	0.00000
ATOM	3259	HCG2	VAL	A	294	33.78811	60.82940	24.50507	H_	1	0	0.00000
ATOM	3260	N	ASP	A	295	37.78798	62.98186	26.76266	N_R	3	0	-0.47000
ATOM	3261	HN	ASP	A	295	37.40771	63.75025	26.33155	H_A	1	0	0.31000
ATOM	3262	CA	ASP	A	295	39.16656	63.05817	27.15415	C_3	4	0	0.16000
ATOM	3263	HCA	ASP	A	295	39.70528	62.28870	26.59565	H_	1	0	0.00000
ATOM	3264	C	ASP	A	295	39.36699	62.77631	28.61168	C_R	3	0	0.51000
ATOM	3265	O	ASP	A	295	40.23166	61.94275	28.97381	O_2	1	2	-0.51000
ATOM	3266	CB	ASP	A	295	39.71436	64.46348	26.75393	C_3	4	0	-0.10000
ATOM	3267	HC	ASP	A	295	40.30008	64.84509	27.58403	H_	1	0	0.00000
ATOM	3268	HC	ASP	A	295	38.90444	65.18258	26.63609	H_	1	0	0.00000
ATOM	3269	CG	ASP	A	295	40.54960	64.53566	25.53137	C_R	3	0	0.62000
ATOM	3270	OD1	ASP	A	295	40.73595	63.59718	24.72445	O_2	1	2	-0.76000
ATOM	3271	OD2	ASP	A	295	41.17973	65.58834	25.28803	O_2	1	2	-0.76000
ATOM	3272	N	ALA	A	296	38.60171	63.39316	29.54305	N_R	3	0	-0.47000
ATOM	3273	HN	ALA	A	296	38.00030	64.06182	29.23113	H_A	1	0	0.31000
ATOM	3274	CA	ALA	A	296	38.60737	63.14232	30.95590	C_3	4	0	0.16000
ATOM	3275	HCA	ALA	A	296	39.57414	63.46909	31.34581	H_	1	0	0.00000
ATOM	3276	C	ALA	A	296	38.39724	61.70287	31.27072	C_R	3	0	0.51000
ATOM	3277	O	ALA	A	296	39.23036	61.10898	31.99330	O_2	1	2	-0.51000
ATOM	3278	CB	ALA	A	296	37.54419	64.01881	31.65957	C_3	4	0	0.00000
ATOM	3279	HC	ALA	A	296	36.54524	63.79466	31.28809	H_	1	0	0.00000
ATOM	3280	HC	ALA	A	296	37.56150	63.84400	32.73728	H_	1	0	0.00000
ATOM	3281	HC	ALA	A	296	37.75354	65.07531	31.48183	H_	1	0	0.00000
ATOM	3282	N	TYR	A	297	37.34663	61.02015	30.75595	N_R	3	0	-0.47000
ATOM	3283	HN	TYR	A	297	36.71124	61.51495	30.23655	H_A	1	0	0.31000
ATOM	3284	CA	TYR	A	297	37.11112	59.61170	30.92419	C_3	4	0	0.16000
ATOM	3285	HCA	TYR	A	297	37.01044	59.44593	32.00173	H_	1	0	0.00000
ATOM	3286	C	TYR	A	297	38.23968	58.77727	30.40666	C_R	3	0	0.51000
ATOM	3287	O	TYR	A	297	38.68763	57.87074	31.14677	O_2	1	2	-0.51000
ATOM	3288	CB	TYR	A	297	35.74856	59.24162	30.27860	C_3	4	0	0.00000
ATOM	3289	HC	TYR	A	297	35.82785	59.35941	29.19461	H_	1	0	0.00000
ATOM	3290	HC	TYR	A	297	34.98650	59.95359	30.60768	H_	1	0	0.00000
ATOM	3291	CG	TYR	A	297	35.25909	57.87912	30.62756	C_R	3	0	0.00000
ATOM	3292	CD1	TYR	A	297	34.76557	57.58353	31.92017	C_R	3	0	0.00000
ATOM	3293	HCD1	TYR	A	297	34.80170	58.29472	32.65482	H_	1	0	0.00000
ATOM	3294	CD2	TYR	A	297	35.24612	56.85613	29.65735	C_R	3	0	0.00000
ATOM	3295	HCD2	TYR	A	297	35.64583	57.03039	28.73760	H_	1	0	0.00000
ATOM	3296	CE1	TYR	A	297	34.19459	56.32553	32.20454	C_R	3	0	0.00000
ATOM	3297	HCE1	TYR	A	297	33.82035	56.13617	33.13698	H_	1	0	0.00000
ATOM	3298	CE2	TYR	A	297	34.67874	55.60030	29.93860	C_R	3	0	0.00000

ATOM	3299	HCE2	TYR	A	297	34.66487	54.87733	29.21978	H_	1	0	0.00000
ATOM	3300	CZ	TYR	A	297	34.11425	55.34409	31.19969	C_R	3	0	0.11000
ATOM	3301	OH	TYR	A	297	33.49222	54.16455	31.42246	O_R	2	2	-0.54000
ATOM	3302	HOH	TYR	A	297	33.08507	53.95157	32.28272	H_A	1	0	0.43000
ATOM	3303	N	ARG	A	298	38.82922	59.01808	29.20591	N_R	3	0	-0.47000
ATOM	3304	HN	ARG	A	298	38.40095	59.66106	28.63784	H_A	1	0	0.31000
ATOM	3305	CA	ARG	A	298	40.03370	58.37310	28.72966	C_3	4	0	0.16000
ATOM	3306	HCA	ARG	A	298	39.79426	57.31499	28.57895	H_	1	0	0.00000
ATOM	3307	C	ARG	A	298	41.16798	58.46936	29.69786	C_R	3	0	0.51000
ATOM	3308	O	ARG	A	298	41.69189	57.41200	30.12901	O_2	1	2	-0.51000
ATOM	3309	CB	ARG	A	298	40.50737	58.95164	27.36186	C_3	4	0	0.00000
ATOM	3310	HCB	ARG	A	298	41.52888	58.62902	27.15599	H_	1	0	0.00000
ATOM	3311	HCB	ARG	A	298	40.52644	60.03784	27.41641	H_	1	0	0.00000
ATOM	3312	CG	ARG	A	298	39.65495	58.52642	26.14394	C_3	4	0	0.00000
ATOM	3313	HCG	ARG	A	298	38.60830	58.76805	26.33977	H_	1	0	0.00000
ATOM	3314	HCG	ARG	A	298	39.72954	57.44502	26.00382	H_	1	0	0.00000
ATOM	3315	CD	ARG	A	298	40.09091	59.24041	24.84176	C_3	4	0	0.38000
ATOM	3316	HCD	ARG	A	298	40.07262	60.32168	24.99220	H_	1	0	0.00000
ATOM	3317	HCD	ARG	A	298	39.35050	59.02745	24.06779	H_	1	0	0.00000
ATOM	3318	NE	ARG	A	298	41.40710	58.89054	24.39745	N_R	3	0	-0.70000
ATOM	3319	HNE	ARG	A	298	42.18518	59.25672	24.82418	H_A	1	0	0.44000
ATOM	3320	CZ	ARG	A	298	41.69366	58.15674	23.32593	C_R	3	0	0.64000
ATOM	3321	NH1	ARG	A	298	40.85132	57.38969	22.66432	N_R	3	0	-0.80000
ATOM	3322	HNH1	ARG	A	298	41.07484	57.05048	21.81005	H_A	1	0	0.46000
ATOM	3323	HNH1	ARG	A	298	40.03279	57.09453	23.05214	H_A	1	0	0.46000
ATOM	3324	NH2	ARG	A	298	42.94786	58.20854	22.92676	N_R	3	0	-0.80000
ATOM	3325	HNH2	ARG	A	298	43.24943	57.74053	22.13784	H_A	1	0	0.46000
ATOM	3326	HNH2	ARG	A	298	43.53196	58.70713	23.49376	H_A	1	0	0.46000
ATOM	3327	N	GLU	A	299	41.65476	59.66937	30.10796	N_R	3	0	-0.47000
ATOM	3328	HN	GLU	A	299	41.21864	60.45341	29.76474	H_A	1	0	0.31000
ATOM	3329	CA	GLU	A	299	42.77460	59.81411	31.00865	C_3	4	0	0.16000
ATOM	3330	HCA	GLU	A	299	43.56527	59.18674	30.57905	H_	1	0	0.00000
ATOM	3331	C	GLU	A	299	42.48895	59.24202	32.35820	C_R	3	0	0.51000
ATOM	3332	O	GLU	A	299	43.36993	58.53643	32.90683	O_2	1	2	-0.51000
ATOM	3333	CB	GLU	A	299	43.41532	61.23687	30.99884	C_3	4	0	0.00000
ATOM	3334	HCB	GLU	A	299	43.70602	61.43894	29.96288	H_	1	0	0.00000
ATOM	3335	HCB	GLU	A	299	44.33706	61.21503	31.58802	H_	1	0	0.00000
ATOM	3336	CG	GLU	A	299	42.54312	62.41446	31.51241	C_3	4	0	-0.10000
ATOM	3337	HCG	GLU	A	299	42.47830	62.37382	32.60233	H_	1	0	0.00000
ATOM	3338	HCG	GLU	A	299	41.54135	62.29772	31.11793	H_	1	0	0.00000
ATOM	3339	CD	GLU	A	299	43.04078	63.74424	31.08430	C_R	3	0	0.62000
ATOM	3340	OE1	GLU	A	299	43.22690	64.00933	29.87875	O_2	1	2	-0.76000
ATOM	3341	OE2	GLU	A	299	43.27149	64.68463	31.87613	O_2	1	2	-0.76000
ATOM	3342	N	ARG	A	300	41.26487	59.32207	32.94004	N_R	3	0	-0.47000
ATOM	3343	HN	ARG	A	300	40.61376	59.90055	32.54471	H_A	1	0	0.31000
ATOM	3344	CA	ARG	A	300	40.84940	58.59946	34.11835	C_3	4	0	0.16000
ATOM	3345	HCA	ARG	A	300	41.54708	58.89175	34.91010	H_	1	0	0.00000
ATOM	3346	C	ARG	A	300	40.92228	57.10810	33.98952	C_R	3	0	0.51000
ATOM	3347	O	ARG	A	300	40.83822	56.42965	35.04084	O_2	1	2	-0.51000
ATOM	3348	CB	ARG	A	300	39.42792	59.08861	34.54888	C_3	4	0	0.00000
ATOM	3349	HCB	ARG	A	300	38.69266	58.77686	33.80362	H_	1	0	0.00000
ATOM	3350	HCB	ARG	A	300	39.44024	60.18214	34.56636	H_	1	0	0.00000
ATOM	3351	CG	ARG	A	300	38.96009	58.59881	35.95151	C_3	4	0	0.00000
ATOM	3352	HCG	ARG	A	300	39.78229	58.73379	36.65980	H_	1	0	0.00000
ATOM	3353	HCG	ARG	A	300	38.72751	57.53305	35.90993	H_	1	0	0.00000
ATOM	3354	CD	ARG	A	300	37.72466	59.34085	36.52238	C_3	4	0	0.38000
ATOM	3355	HCD	ARG	A	300	37.89667	60.41831	36.47788	H_	1	0	0.00000

ATOM	3356	HCD	ARG	A	300	37.61450	59.08596	37.58089	H_	1	0	0.00000
ATOM	3357	NE	ARG	A	300	36.50313	59.06312	35.83623	N_R	3	0	-0.70000
ATOM	3358	HNE	ARG	A	300	36.21398	59.70407	35.17403	H_A	1	0	0.44000
ATOM	3359	CZ	ARG	A	300	35.71867	57.99739	36.02680	C_R	3	0	0.64000
ATOM	3360	NH1	ARG	A	300	36.01765	56.97993	36.82248	N_R	3	0	-0.80000
ATOM	3361	HNH1	ARG	A	300	35.40049	56.24129	36.91579	H_A	1	0	0.46000
ATOM	3362	HNH1	ARG	A	300	36.85910	56.96800	37.29544	H_A	1	0	0.46000
ATOM	3363	NH2	ARG	A	300	34.55826	57.94524	35.39560	N_R	3	0	-0.80000
ATOM	3364	HNH2	ARG	A	300	33.97576	57.18240	35.51639	H_A	1	0	0.46000
ATOM	3365	HNH2	ARG	A	300	34.28853	58.66648	34.81253	H_A	1	0	0.46000
ATOM	3366	N	LEU	A	301	41.13413	56.47004	32.81122	N_R	3	0	-0.47000
ATOM	3367	HN	LEU	A	301	41.20574	56.97434	31.99911	H_A	1	0	0.31000
ATOM	3368	CA	LEU	A	301	41.35218	55.06104	32.62344	C_3	4	0	0.16000
ATOM	3369	HCA	LEU	A	301	41.28979	54.51238	33.56324	H_	1	0	0.00000
ATOM	3370	C	LEU	A	301	42.72963	54.81151	32.10888	C_R	3	0	0.51000
ATOM	3371	O	LEU	A	301	43.04937	53.63673	31.80697	O_2	1	2	-0.51000
ATOM	3372	CB	LEU	A	301	40.26797	54.50485	31.64435	C_3	4	0	0.00000
ATOM	3373	HCB	LEU	A	301	40.52063	53.47631	31.36648	H_	1	0	0.00000
ATOM	3374	HCB	LEU	A	301	40.30844	55.10473	30.73048	H_	1	0	0.00000
ATOM	3375	CG	LEU	A	301	38.79600	54.50171	32.16764	C_3	4	0	0.00000
ATOM	3376	HCG	LEU	A	301	38.54017	55.51193	32.49871	H_	1	0	0.00000
ATOM	3377	CD1	LEU	A	301	37.81894	54.12939	31.01570	C_3	4	0	0.00000
ATOM	3378	HCD1	LEU	A	301	38.05197	53.14098	30.61462	H_	1	0	0.00000
ATOM	3379	HCD1	LEU	A	301	36.79160	54.11979	31.37807	H_	1	0	0.00000
ATOM	3380	HCD1	LEU	A	301	37.88675	54.85868	30.20664	H_	1	0	0.00000
ATOM	3381	CD2	LEU	A	301	38.57950	53.54280	33.37150	C_3	4	0	0.00000
ATOM	3382	HCD2	LEU	A	301	39.18025	53.84922	34.22733	H_	1	0	0.00000
ATOM	3383	HCD2	LEU	A	301	37.53478	53.55729	33.68582	H_	1	0	0.00000
ATOM	3384	HCD2	LEU	A	301	38.84817	52.51936	33.10245	H_	1	0	0.00000
ATOM	3385	N	GLY	A	302	43.66662	55.78867	31.99283	N_R	3	0	-0.47000
ATOM	3386	HN	GLY	A	302	43.46336	56.67896	32.28433	H_A	1	0	0.31000
ATOM	3387	CA	GLY	A	302	44.98183	55.59151	31.46618	C_3	4	0	0.16000
ATOM	3388	HCA	GLY	A	302	45.39907	54.65992	31.85947	H_	1	0	0.00000
ATOM	3389	HCA	GLY	A	302	45.60867	56.40252	31.84183	H_	1	0	0.00000
ATOM	3390	C	GLY	A	302	45.08509	55.58761	29.98773	C_R	3	0	0.51000
ATOM	3391	O	GLY	A	302	46.18419	55.22762	29.50082	O_2	1	2	-0.51000
ATOM	3392	N	LEU	A	303	44.09132	56.02007	29.16839	N_R	3	0	-0.47000
ATOM	3393	HN	LEU	A	303	43.29446	56.38937	29.56010	H_A	1	0	0.31000
ATOM	3394	CA	LEU	A	303	44.19243	56.10997	27.73374	C_3	4	0	0.16000
ATOM	3395	HCA	LEU	A	303	44.95546	55.42180	27.37810	H_	1	0	0.00000
ATOM	3396	C	LEU	A	303	44.61207	57.50311	27.39627	C_R	3	0	0.51000
ATOM	3397	O	LEU	A	303	43.98913	58.43403	27.96406	O_2	1	2	-0.51000
ATOM	3398	CB	LEU	A	303	42.86635	55.74068	26.99434	C_3	4	0	0.00000
ATOM	3399	HCB	LEU	A	303	42.94474	56.08997	25.95887	H_	1	0	0.00000
ATOM	3400	HCB	LEU	A	303	42.04539	56.29903	27.44738	H_	1	0	0.00000
ATOM	3401	CG	LEU	A	303	42.45151	54.23443	26.92710	C_3	4	0	0.00000
ATOM	3402	HCG	LEU	A	303	41.58289	54.19155	26.26029	H_	1	0	0.00000
ATOM	3403	CD1	LEU	A	303	43.52094	53.30720	26.28489	C_3	4	0	0.00000
ATOM	3404	HCD1	LEU	A	303	44.41364	53.24111	26.90658	H_	1	0	0.00000
ATOM	3405	HCD1	LEU	A	303	43.12246	52.29869	26.16378	H_	1	0	0.00000
ATOM	3406	HCD1	LEU	A	303	43.80204	53.68054	25.29867	H_	1	0	0.00000
ATOM	3407	CD2	LEU	A	303	41.96409	53.67945	28.28866	C_3	4	0	0.00000
ATOM	3408	HCD2	LEU	A	303	41.11079	54.26118	28.63723	H_	1	0	0.00000
ATOM	3409	HCD2	LEU	A	303	41.64513	52.64181	28.18904	H_	1	0	0.00000
ATOM	3410	HCD2	LEU	A	303	42.75538	53.72113	29.03438	H_	1	0	0.00000
ATOM	3411	N	PRO	A	304	45.61212	57.83934	26.52324	N_R	3	0	-0.29000
ATOM	3412	CA	PRO	A	304	46.06025	59.19939	26.34717	C_3	4	0	0.11000

ATOM	3413	HCA	PRO	A	304	46.40122	59.54567	27.32762	H_	1	0	0.00000
ATOM	3414	C	PRO	A	304	45.03689	60.11439	25.81789	C_2	3	0	0.51000
ATOM	3415	O	PRO	A	304	44.19268	59.63367	25.06453	O_2	1	2	-0.51000
ATOM	3416	CB	PRO	A	304	47.28899	59.10337	25.40925	C_3	4	0	0.00000
ATOM	3417	HCb	PRO	A	304	48.21010	59.08400	25.99956	H_	1	0	0.00000
ATOM	3418	HCb	PRO	A	304	47.35654	59.92637	24.69121	H_	1	0	0.00000
ATOM	3419	CG	PRO	A	304	47.10849	57.75823	24.69660	C_3	4	0	0.00000
ATOM	3420	HCG	PRO	A	304	48.06789	57.30926	24.42642	H_	1	0	0.00000
ATOM	3421	HCG	PRO	A	304	46.50457	57.89161	23.79369	H_	1	0	0.00000
ATOM	3422	CD	PRO	A	304	46.34524	56.90682	25.72389	C_3	4	0	0.18000
ATOM	3423	HCD	PRO	A	304	45.68693	56.20449	25.20434	H_	1	0	0.00000
ATOM	3424	HCD	PRO	A	304	47.04878	56.35449	26.35418	H_	1	0	0.00000
ATOM	3425	N	PRO	A	305	44.99003	61.42050	26.07649	N_R	3	0	-0.29000
ATOM	3426	CA	PRO	A	305	44.00372	62.29871	25.48869	C_3	4	0	0.11000
ATOM	3427	HCA	PRO	A	305	43.00236	61.88150	25.65237	H_	1	0	0.00000
ATOM	3428	C	PRO	A	305	44.19051	62.52854	24.05949	C_2	3	0	0.51000
ATOM	3429	O	PRO	A	305	45.24419	62.21353	23.52003	O_2	1	2	-0.51000
ATOM	3430	CB	PRO	A	305	44.13710	63.59401	26.30700	C_3	4	0	0.00000
ATOM	3431	HCb	PRO	A	305	43.48553	63.51295	27.17917	H_	1	0	0.00000
ATOM	3432	HCb	PRO	A	305	43.88601	64.49628	25.74185	H_	1	0	0.00000
ATOM	3433	CG	PRO	A	305	45.59614	63.60577	26.77038	C_3	4	0	0.00000
ATOM	3434	HCG	PRO	A	305	45.72515	64.16635	27.69997	H_	1	0	0.00000
ATOM	3435	HCG	PRO	A	305	46.23542	64.03590	25.99341	H_	1	0	0.00000
ATOM	3436	CD	PRO	A	305	45.89837	62.11137	26.94882	C_3	4	0	0.18000
ATOM	3437	HCD	PRO	A	305	46.94285	61.91263	26.69343	H_	1	0	0.00000
ATOM	3438	HCD	PRO	A	305	45.71221	61.81549	27.98566	H_	1	0	0.00000
ATOM	3439	N	ALA	A	306	43.20299	63.04639	23.34934	N_R	3	0	-0.47000
ATOM	3440	HN	ALA	A	306	42.39920	63.26888	23.82308	H_A	1	0	0.31000
ATOM	3441	CA	ALA	A	306	43.20594	63.19336	21.91985	C_3	4	0	0.16000
ATOM	3442	HCA	ALA	A	306	44.21904	63.43574	21.57747	H_	1	0	0.00000
ATOM	3443	C	ALA	A	306	42.30580	64.27065	21.43523	C_R	3	0	0.51000
ATOM	3444	O	ALA	A	306	42.68056	64.97571	20.46404	O_2	1	2	-0.51000
ATOM	3445	CB	ALA	A	306	42.80444	61.84331	21.27420	C_3	4	0	0.00000
ATOM	3446	HCb	ALA	A	306	41.81339	61.53541	21.60699	H_	1	0	0.00000
ATOM	3447	HCb	ALA	A	306	42.80317	61.92935	20.18825	H_	1	0	0.00000
ATOM	3448	HCb	ALA	A	306	43.51622	61.06332	21.54988	H_	1	0	0.00000
ATOM	3449	N	TYR	A	307	41.10277	64.51446	22.01115	N_R	3	0	-0.47000
ATOM	3450	HN	TYR	A	307	40.94775	64.15258	22.88685	H_A	1	0	0.31000
ATOM	3451	CA	TYR	A	307	40.06521	65.33930	21.44371	C_3	4	0	0.16000
ATOM	3452	HCA	TYR	A	307	40.16594	65.34427	20.35446	H_	1	0	0.00000
ATOM	3453	C	TYR	A	307	40.24691	66.75386	21.88498	C_R	3	0	0.51000
ATOM	3454	O	TYR	A	307	39.30961	67.44937	22.33781	O_2	1	2	-0.51000
ATOM	3455	CB	TYR	A	307	38.67503	64.70540	21.75532	C_3	4	0	0.00000
ATOM	3456	HCb	TYR	A	307	37.90248	65.36327	21.35873	H_	1	0	0.00000
ATOM	3457	HCb	TYR	A	307	38.52228	64.64549	22.83728	H_	1	0	0.00000
ATOM	3458	CG	TYR	A	307	38.52987	63.35583	21.13641	C_R	3	0	0.00000
ATOM	3459	CD1	TYR	A	307	38.00119	63.20983	19.83147	C_R	3	0	0.00000
ATOM	3460	HCD1	TYR	A	307	37.63062	64.02258	19.32998	H_	1	0	0.00000
ATOM	3461	CD2	TYR	A	307	38.97952	62.19806	21.81431	C_R	3	0	0.00000
ATOM	3462	HCD2	TYR	A	307	39.33855	62.26500	22.76953	H_	1	0	0.00000
ATOM	3463	CE1	TYR	A	307	38.00174	61.95353	19.19412	C_R	3	0	0.00000
ATOM	3464	HCE1	TYR	A	307	37.64273	61.87076	18.24176	H_	1	0	0.00000
ATOM	3465	CE2	TYR	A	307	38.97218	60.94175	21.17884	C_R	3	0	0.00000
ATOM	3466	HCE2	TYR	A	307	39.32409	60.12010	21.67334	H_	1	0	0.00000
ATOM	3467	CZ	TYR	A	307	38.52104	60.82420	19.85295	C_R	3	0	0.11000
ATOM	3468	OH	TYR	A	307	38.62551	59.64106	19.20616	O_R	2	2	-0.54000
ATOM	3469	HOH	TYR	A	307	38.33616	59.55577	18.27850	H_A	1	0	0.43000

ATOM	3470	N	ARG	A	308	41.49082	67.27361	21.77459	N_R	3	0	-0.47000
ATOM	3471	HN	ARG	A	308	42.09279	66.67087	21.33370	H_A	1	0	0.31000
ATOM	3472	CA	ARG	A	308	41.98337	68.49711	22.35154	C_3	4	0	0.16000
ATOM	3473	HCA	ARG	A	308	41.14823	69.05410	22.78654	H_	1	0	0.00000
ATOM	3474	C	ARG	A	308	42.55992	69.37509	21.29360	C_R	3	0	0.51000
ATOM	3475	O	ARG	A	308	43.79261	69.59235	21.23125	O_2	1	2	-0.51000
ATOM	3476	CB	ARG	A	308	42.95426	68.11611	23.52362	C_3	4	0	0.00000
ATOM	3477	HC	ARG	A	308	43.97511	67.98434	23.15693	H_	1	0	0.00000
ATOM	3478	HC	ARG	A	308	42.65507	67.14612	23.91958	H_	1	0	0.00000
ATOM	3479	CG	ARG	A	308	42.95711	69.12853	24.70954	C_3	4	0	0.00000
ATOM	3480	HCG	ARG	A	308	41.92621	69.36279	24.98996	H_	1	0	0.00000
ATOM	3481	HCG	ARG	A	308	43.42831	70.05682	24.37537	H_	1	0	0.00000
ATOM	3482	CD	ARG	A	308	43.68692	68.62550	25.98462	C_3	4	0	0.38000
ATOM	3483	HCD	ARG	A	308	43.68479	69.42235	26.73399	H_	1	0	0.00000
ATOM	3484	HCD	ARG	A	308	44.72380	68.37754	25.74372	H_	1	0	0.00000
ATOM	3485	NE	ARG	A	308	43.04259	67.47608	26.51609	N_R	3	0	-0.70000
ATOM	3486	HNE	ARG	A	308	42.41571	66.98727	25.97124	H_A	1	0	0.44000
ATOM	3487	CZ	ARG	A	308	43.24709	66.88227	27.68770	C_R	3	0	0.64000
ATOM	3488	NH1	ARG	A	308	44.02354	67.18832	28.71153	N_R	3	0	-0.80000
ATOM	3489	HNH1	ARG	A	308	44.01834	66.56835	29.46280	H_A	1	0	0.46000
ATOM	3490	HNH1	ARG	A	308	44.56784	67.97987	28.71476	H_A	1	0	0.46000
ATOM	3491	NH2	ARG	A	308	42.56781	65.77594	27.78635	N_R	3	0	-0.80000
ATOM	3492	HNH2	ARG	A	308	42.69542	65.18223	28.52588	H_A	1	0	0.46000
ATOM	3493	HNH2	ARG	A	308	42.02502	65.55609	27.03574	H_A	1	0	0.46000
ATOM	3494	N	GLY	A	309	41.72508	69.95996	20.40056	N_R	3	0	-0.47000
ATOM	3495	HN	GLY	A	309	40.77820	69.78896	20.52651	H_A	1	0	0.31000
ATOM	3496	CA	GLY	A	309	42.09883	70.82631	19.31398	C_3	4	0	0.16000
ATOM	3497	HCA	GLY	A	309	43.18226	70.88317	19.18541	H_	1	0	0.00000
ATOM	3498	HCA	GLY	A	309	41.74505	71.82412	19.58228	H_	1	0	0.00000
ATOM	3499	C	GLY	A	309	41.49862	70.46394	18.00650	C_R	3	0	0.51000
ATOM	3500	O	GLY	A	309	41.57084	71.28927	17.06601	O_2	1	2	-0.51000
ATOM	3501	N	VAL	A	310	40.86014	69.28423	17.82171	N_R	3	0	-0.47000
ATOM	3502	HN	VAL	A	310	40.86922	68.66804	18.56709	H_A	1	0	0.31000
ATOM	3503	CA	VAL	A	310	40.09948	68.90174	16.65400	C_3	4	0	0.16000
ATOM	3504	HCA	VAL	A	310	40.61380	69.27005	15.76020	H_	1	0	0.00000
ATOM	3505	C	VAL	A	310	38.73301	69.50661	16.66098	C_R	3	0	0.51000
ATOM	3506	O	VAL	A	310	38.36249	70.18382	17.64854	O_2	1	2	-0.51000
ATOM	3507	CB	VAL	A	310	40.02973	67.33794	16.54994	C_3	4	0	0.00000
ATOM	3508	HC	VAL	A	310	39.52666	67.08708	15.61056	H_	1	0	0.00000
ATOM	3509	CG1	VAL	A	310	41.44439	66.69935	16.46069	C_3	4	0	0.00000
ATOM	3510	HCG1	VAL	A	310	42.01976	66.89159	17.36767	H_	1	0	0.00000
ATOM	3511	HCG1	VAL	A	310	41.36376	65.62169	16.32723	H_	1	0	0.00000
ATOM	3512	HCG1	VAL	A	310	41.99009	67.10320	15.60639	H_	1	0	0.00000
ATOM	3513	CG2	VAL	A	310	39.19473	66.68267	17.68816	C_3	4	0	0.00000
ATOM	3514	HCG2	VAL	A	310	38.16103	67.03096	17.65897	H_	1	0	0.00000
ATOM	3515	HCG2	VAL	A	310	39.18039	65.59775	17.57893	H_	1	0	0.00000
ATOM	3516	HCG2	VAL	A	310	39.61371	66.93345	18.66127	H_	1	0	0.00000
ATOM	3517	N	THR	A	311	37.86625	69.32154	15.63343	N_R	3	0	-0.47000
ATOM	3518	HN	THR	A	311	38.17170	68.87906	14.83884	H_A	1	0	0.31000
ATOM	3519	CA	THR	A	311	36.46807	69.70236	15.63386	C_3	4	0	0.16000
ATOM	3520	HCA	THR	A	311	36.12345	69.85036	16.66166	H_	1	0	0.00000
ATOM	3521	C	THR	A	311	35.63598	68.59325	15.07103	C_R	3	0	0.51000
ATOM	3522	O	THR	A	311	36.18739	67.62071	14.50110	O_2	1	2	-0.51000
ATOM	3523	CB	THR	A	311	36.30535	71.05494	14.86106	C_3	4	0	0.23000
ATOM	3524	HC	THR	A	311	36.54753	70.89232	13.80665	H_	1	0	0.00000
ATOM	3525	OG1	THR	A	311	37.21694	72.04689	15.34645	O_3	2	2	-0.66000
ATOM	3526	HOG1	THR	A	311	38.05794	71.56779	15.48081	H_A	1	0	0.43000

ATOM	3527	CG2	THR	A	311	34.90022	71.69598	14.96656	C_3	4	0	0.00000
ATOM	3528	HCG2	THR	A	311	34.61359	71.81687	16.01246	H_	1	0	0.00000
ATOM	3529	HCG2	THR	A	311	34.89724	72.67664	14.48812	H_	1	0	0.00000
ATOM	3530	HCG2	THR	A	311	34.16176	71.07834	14.46435	H_	1	0	0.00000
ATOM	3531	N	GLY	A	312	34.28350	68.57983	15.17252	N_R	3	0	-0.47000
ATOM	3532	HN	GLY	A	312	33.85588	69.30091	15.66020	H_A	1	0	0.31000
ATOM	3533	CA	GLY	A	312	33.44828	67.54863	14.62500	C_3	4	0	0.16000
ATOM	3534	HCA	GLY	A	312	33.58691	66.63662	15.20710	H_	1	0	0.00000
ATOM	3535	HCA	GLY	A	312	33.77434	67.35920	13.59932	H_	1	0	0.00000
ATOM	3536	C	GLY	A	312	32.00015	67.84655	14.58000	C_R	3	0	0.51000
ATOM	3537	O	GLY	A	312	31.51129	68.72081	15.33369	O_2	1	2	-0.51000
ATOM	3538	N	PHE	A	313	31.22747	67.12420	13.73206	N_R	3	0	-0.47000
ATOM	3539	HN	PHE	A	313	31.68559	66.39785	13.31169	H_A	1	0	0.31000
ATOM	3540	CA	PHE	A	313	29.81857	67.27941	13.48430	C_3	4	0	0.16000
ATOM	3541	HCA	PHE	A	313	29.44166	67.99377	14.21728	H_	1	0	0.00000
ATOM	3542	C	PHE	A	313	29.08174	66.01166	13.71207	C_R	3	0	0.51000
ATOM	3543	O	PHE	A	313	29.55905	64.93203	13.28592	O_2	1	2	-0.51000
ATOM	3544	CB	PHE	A	313	29.49230	67.92572	12.10038	C_3	4	0	0.00000
ATOM	3545	HCB	PHE	A	313	30.12433	68.81132	12.00891	H_	1	0	0.00000
ATOM	3546	HCB	PHE	A	313	28.46535	68.30018	12.13439	H_	1	0	0.00000
ATOM	3547	CG	PHE	A	313	29.60881	67.10215	10.85904	C_R	3	0	0.00000
ATOM	3548	CD1	PHE	A	313	28.67801	66.07560	10.56293	C_R	3	0	0.00000
ATOM	3549	HCD1	PHE	A	313	27.93341	65.84517	11.22255	H_	1	0	0.00000
ATOM	3550	CD2	PHE	A	313	30.59815	67.39393	9.89121	C_R	3	0	0.00000
ATOM	3551	HCD2	PHE	A	313	31.25927	68.15144	10.04865	H_	1	0	0.00000
ATOM	3552	CE1	PHE	A	313	28.73724	65.37139	9.34575	C_R	3	0	0.00000
ATOM	3553	HCE1	PHE	A	313	28.05924	64.63945	9.14200	H_	1	0	0.00000
ATOM	3554	CE2	PHE	A	313	30.67665	66.66985	8.68823	C_R	3	0	0.00000
ATOM	3555	HCE2	PHE	A	313	31.42004	66.86474	8.01991	H_	1	0	0.00000
ATOM	3556	CZ	PHE	A	313	29.73095	65.67440	8.40293	C_R	3	0	0.00000
ATOM	3557	HCZ	PHE	A	313	29.77135	65.16695	7.51662	H_	1	0	0.00000
ATOM	3558	N	ALA	A	314	27.87924	66.07030	14.32579	N_R	3	0	-0.47000
ATOM	3559	HN	ALA	A	314	27.59231	66.94744	14.58346	H_A	1	0	0.31000
ATOM	3560	CA	ALA	A	314	26.98745	64.98358	14.61550	C_3	4	0	0.16000
ATOM	3561	HCA	ALA	A	314	27.38195	64.04039	14.23746	H_	1	0	0.00000
ATOM	3562	C	ALA	A	314	25.64624	65.22563	14.01986	C_R	3	0	0.51000
ATOM	3563	O	ALA	A	314	25.14778	66.36522	14.15583	O_2	1	2	-0.51000
ATOM	3564	CB	ALA	A	314	26.85953	64.84856	16.15106	C_3	4	0	0.00000
ATOM	3565	HCB	ALA	A	314	26.46692	65.76508	16.59364	H_	1	0	0.00000
ATOM	3566	HCB	ALA	A	314	26.18905	64.02426	16.39888	H_	1	0	0.00000
ATOM	3567	HCB	ALA	A	314	27.83479	64.64551	16.59288	H_	1	0	0.00000
ATOM	3568	N	PHE	A	315	24.96798	64.25921	13.35346	N_R	3	0	-0.47000
ATOM	3569	HN	PHE	A	315	25.47113	63.47270	13.14790	H_A	1	0	0.31000
ATOM	3570	CA	PHE	A	315	23.58598	64.31423	12.93228	C_3	4	0	0.16000
ATOM	3571	HCA	PHE	A	315	23.10357	65.15726	13.41718	H_	1	0	0.00000
ATOM	3572	C	PHE	A	315	22.80452	63.11965	13.34242	C_R	3	0	0.51000
ATOM	3573	O	PHE	A	315	23.29687	61.99850	13.10615	O_2	1	2	-0.51000
ATOM	3574	CB	PHE	A	315	23.46676	64.58190	11.40445	C_3	4	0	0.00000
ATOM	3575	HCB	PHE	A	315	23.99490	65.51226	11.19264	H_	1	0	0.00000
ATOM	3576	HCB	PHE	A	315	22.42121	64.77285	11.15647	H_	1	0	0.00000
ATOM	3577	CG	PHE	A	315	23.96685	63.51712	10.49587	C_R	3	0	0.00000
ATOM	3578	CD1	PHE	A	315	23.15027	62.41340	10.15095	C_R	3	0	0.00000
ATOM	3579	HCD1	PHE	A	315	22.21337	62.32532	10.54724	H_	1	0	0.00000
ATOM	3580	CD2	PHE	A	315	25.25264	63.61378	9.92146	C_R	3	0	0.00000
ATOM	3581	HCD2	PHE	A	315	25.85935	64.40243	10.14985	H_	1	0	0.00000
ATOM	3582	CE1	PHE	A	315	23.61259	61.42301	9.26592	C_R	3	0	0.00000
ATOM	3583	HCE1	PHE	A	315	23.01923	60.62391	9.03390	H_	1	0	0.00000

ATOM	3584	CE2	PHE	A	315	25.71065	62.63116	9.02875	C_R	3	0	0.00000
ATOM	3585	HCE2	PHE	A	315	26.63796	62.71179	8.62036	H_	1	0	0.00000
ATOM	3586	CZ	PHE	A	315	24.89738	61.53278	8.70810	C_R	3	0	0.00000
ATOM	3587	HCZ	PHE	A	315	25.25165	60.80465	8.08882	H_	1	0	0.00000
ATOM	3588	N	GLY	A	316	21.57292	63.21700	13.89748	N_R	3	0	-0.47000
ATOM	3589	HN	GLY	A	316	21.25196	64.09156	14.10507	H_A	1	0	0.31000
ATOM	3590	CA	GLY	A	316	20.68486	62.13747	14.21673	C_3	4	0	0.16000
ATOM	3591	HCA	GLY	A	316	20.52924	62.13318	15.28919	H_	1	0	0.00000
ATOM	3592	HCA	GLY	A	316	21.11789	61.17538	13.96852	H_	1	0	0.00000
ATOM	3593	C	GLY	A	316	19.35793	62.27371	13.57294	C_R	3	0	0.51000
ATOM	3594	O	GLY	A	316	18.71054	63.33545	13.75709	O_2	1	2	-0.51000
ATOM	3595	N	LEU	A	317	18.84629	61.25086	12.83834	N_R	3	0	-0.47000
ATOM	3596	HN	LEU	A	317	19.40989	60.47352	12.76790	H_A	1	0	0.31000
ATOM	3597	CA	LEU	A	317	17.52216	61.20633	12.25280	C_3	4	0	0.16000
ATOM	3598	HCA	LEU	A	317	16.92969	61.98912	12.73651	H_	1	0	0.00000
ATOM	3599	C	LEU	A	317	16.77118	59.96274	12.58270	C_R	3	0	0.51000
ATOM	3600	O	LEU	A	317	17.37491	58.97509	13.06222	O_2	1	2	-0.51000
ATOM	3601	CB	LEU	A	317	17.49827	61.57076	10.72947	C_3	4	0	0.00000
ATOM	3602	HCB	LEU	A	317	17.96117	62.55340	10.63190	H_	1	0	0.00000
ATOM	3603	HCB	LEU	A	317	16.45310	61.70920	10.44629	H_	1	0	0.00000
ATOM	3604	CG	LEU	A	317	18.13285	60.65085	9.63648	C_3	4	0	0.00000
ATOM	3605	HCG	LEU	A	317	17.93796	61.15693	8.68290	H_	1	0	0.00000
ATOM	3606	CD1	LEU	A	317	19.67602	60.55423	9.72267	C_3	4	0	0.00000
ATOM	3607	HCD1	LEU	A	317	19.98738	60.10138	10.65817	H_	1	0	0.00000
ATOM	3608	HCD1	LEU	A	317	20.06588	59.95615	8.89838	H_	1	0	0.00000
ATOM	3609	HCD1	LEU	A	317	20.11401	61.54862	9.64906	H_	1	0	0.00000
ATOM	3610	CD2	LEU	A	317	17.46018	59.25925	9.49168	C_3	4	0	0.00000
ATOM	3611	HCD2	LEU	A	317	16.38909	59.37535	9.31604	H_	1	0	0.00000
ATOM	3612	HCD2	LEU	A	317	17.88414	58.72126	8.64249	H_	1	0	0.00000
ATOM	3613	HCD2	LEU	A	317	17.60645	58.65282	10.38163	H_	1	0	0.00000
ATOM	3614	N	GLY	A	318	15.43115	59.91477	12.36697	N_R	3	0	-0.47000
ATOM	3615	HN	GLY	A	318	15.03864	60.69427	11.94299	H_A	1	0	0.31000
ATOM	3616	CA	GLY	A	318	14.53594	58.84787	12.72709	C_3	4	0	0.16000
ATOM	3617	HCA	GLY	A	318	13.64928	59.30441	13.16977	H_	1	0	0.00000
ATOM	3618	HCA	GLY	A	318	14.97732	58.20886	13.49394	H_	1	0	0.00000
ATOM	3619	C	GLY	A	318	14.11135	58.03192	11.56518	C_R	3	0	0.51000
ATOM	3620	O	GLY	A	318	13.59444	58.60080	10.57114	O_2	1	2	-0.51000
ATOM	3621	N	VAL	A	319	14.25870	56.68488	11.57693	N_R	3	0	-0.47000
ATOM	3622	HN	VAL	A	319	14.49117	56.26962	12.40940	H_A	1	0	0.31000
ATOM	3623	CA	VAL	A	319	14.06846	55.81248	10.44901	C_3	4	0	0.16000
ATOM	3624	HCA	VAL	A	319	14.57006	56.28174	9.59221	H_	1	0	0.00000
ATOM	3625	C	VAL	A	319	12.61727	55.67251	10.12798	C_R	3	0	0.51000
ATOM	3626	O	VAL	A	319	12.25107	55.92835	8.95837	O_2	1	2	-0.51000
ATOM	3627	CB	VAL	A	319	14.78131	54.43402	10.66457	C_3	4	0	0.00000
ATOM	3628	HCB	VAL	A	319	14.28739	53.92613	11.49480	H_	1	0	0.00000
ATOM	3629	CG1	VAL	A	319	14.67127	53.51105	9.41691	C_3	4	0	0.00000
ATOM	3630	HCG1	VAL	A	319	15.11992	53.99867	8.55274	H_	1	0	0.00000
ATOM	3631	HCG1	VAL	A	319	15.19324	52.56900	9.58304	H_	1	0	0.00000
ATOM	3632	HCG1	VAL	A	319	13.62933	53.28085	9.19281	H_	1	0	0.00000
ATOM	3633	CG2	VAL	A	319	16.28790	54.59540	11.02867	C_3	4	0	0.00000
ATOM	3634	HCG2	VAL	A	319	16.41069	55.17274	11.94332	H_	1	0	0.00000
ATOM	3635	HCG2	VAL	A	319	16.75090	53.62022	11.19013	H_	1	0	0.00000
ATOM	3636	HCG2	VAL	A	319	16.82285	55.10719	10.22677	H_	1	0	0.00000
ATOM	3637	N	GLU	A	320	11.69035	55.30085	11.04565	N_R	3	0	-0.47000
ATOM	3638	HN	GLU	A	320	11.97539	55.00470	11.90979	H_A	1	0	0.31000
ATOM	3639	CA	GLU	A	320	10.26594	55.20024	10.88730	C_3	4	0	0.16000
ATOM	3640	HCA	GLU	A	320	10.07582	54.21306	10.45560	H_	1	0	0.00000

ATOM	3641	C	GLU	A	320	9.65895	56.21819	10.00009	C_R	3	0	0.51000
ATOM	3642	O	GLU	A	320	8.99729	55.82429	9.01947	O_2	1	2	-0.51000
ATOM	3643	CB	GLU	A	320	9.54299	55.27305	12.27314	C_3	4	0	0.00000
ATOM	3644	HCB	GLU	A	320	8.49251	55.54524	12.12244	H_	1	0	0.00000
ATOM	3645	HCB	GLU	A	320	9.98671	56.06111	12.88977	H_	1	0	0.00000
ATOM	3646	CG	GLU	A	320	9.51746	53.93986	13.06338	C_3	4	0	-0.10000
ATOM	3647	HCG	GLU	A	320	9.15843	53.15755	12.40141	H_	1	0	0.00000
ATOM	3648	HCG	GLU	A	320	8.80287	54.01995	13.88290	H_	1	0	0.00000
ATOM	3649	CD	GLU	A	320	10.78761	53.49910	13.64686	C_R	3	0	0.62000
ATOM	3650	OE1	GLU	A	320	11.83246	54.18631	13.61743	O_2	1	2	-0.76000
ATOM	3651	OE2	GLU	A	320	10.82976	52.39007	14.20755	O_2	1	2	-0.76000
ATOM	3652	N	ARG	A	321	9.79278	57.54469	10.22116	N_R	3	0	-0.47000
ATOM	3653	HN	ARG	A	321	10.35145	57.80647	10.96970	H_A	1	0	0.31000
ATOM	3654	CA	ARG	A	321	9.15995	58.57234	9.43421	C_3	4	0	0.16000
ATOM	3655	HCA	ARG	A	321	8.08512	58.39585	9.51555	H_	1	0	0.00000
ATOM	3656	C	ARG	A	321	9.53146	58.47307	7.98947	C_R	3	0	0.51000
ATOM	3657	O	ARG	A	321	8.65265	58.40885	7.08789	O_2	1	2	-0.51000
ATOM	3658	CB	ARG	A	321	9.48371	59.97955	10.04040	C_3	4	0	0.00000
ATOM	3659	HCB	ARG	A	321	10.27960	60.45780	9.46256	H_	1	0	0.00000
ATOM	3660	HCB	ARG	A	321	9.87486	59.87571	11.05672	H_	1	0	0.00000
ATOM	3661	CG	ARG	A	321	8.27080	60.95333	10.10103	C_3	4	0	0.00000
ATOM	3662	HCG	ARG	A	321	7.74600	60.94356	9.14188	H_	1	0	0.00000
ATOM	3663	HCG	ARG	A	321	8.65271	61.96560	10.25885	H_	1	0	0.00000
ATOM	3664	CD	ARG	A	321	7.27485	60.62552	11.24660	C_3	4	0	0.38000
ATOM	3665	HCD	ARG	A	321	7.81046	60.60354	12.19798	H_	1	0	0.00000
ATOM	3666	HCD	ARG	A	321	6.84046	59.63624	11.10310	H_	1	0	0.00000
ATOM	3667	NE	ARG	A	321	6.25597	61.61659	11.37063	N_R	3	0	-0.70000
ATOM	3668	HNE	ARG	A	321	6.47041	62.38784	11.91158	H_A	1	0	0.44000
ATOM	3669	CZ	ARG	A	321	5.02809	61.57027	10.84915	C_R	3	0	0.64000
ATOM	3670	NH1	ARG	A	321	4.58760	60.61428	10.04337	N_R	3	0	-0.80000
ATOM	3671	HNH1	ARG	A	321	3.67768	60.63013	9.72081	H_A	1	0	0.46000
ATOM	3672	HNH1	ARG	A	321	5.17478	59.89076	9.79279	H_A	1	0	0.46000
ATOM	3673	NH2	ARG	A	321	4.18489	62.54000	11.16073	N_R	3	0	-0.80000
ATOM	3674	HNH2	ARG	A	321	3.28441	62.52864	10.81289	H_A	1	0	0.46000
ATOM	3675	HNH2	ARG	A	321	4.46092	63.24181	11.76517	H_A	1	0	0.46000
ATOM	3676	N	LEU	A	322	10.84413	58.37758	7.67773	N_R	3	0	-0.47000
ATOM	3677	HN	LEU	A	322	11.47723	58.38050	8.41485	H_A	1	0	0.31000
ATOM	3678	CA	LEU	A	322	11.36865	58.21078	6.35867	C_3	4	0	0.16000
ATOM	3679	HCA	LEU	A	322	10.97239	59.04396	5.77218	H_	1	0	0.00000
ATOM	3680	C	LEU	A	322	10.94178	56.92284	5.74365	C_R	3	0	0.51000
ATOM	3681	O	LEU	A	322	10.49298	56.96008	4.57949	O_2	1	2	-0.51000
ATOM	3682	CB	LEU	A	322	12.91326	58.36996	6.40198	C_3	4	0	0.00000
ATOM	3683	HCB	LEU	A	322	13.32409	57.57943	7.03992	H_	1	0	0.00000
ATOM	3684	HCB	LEU	A	322	13.14038	59.32222	6.89060	H_	1	0	0.00000
ATOM	3685	CG	LEU	A	322	13.64987	58.32956	5.02419	C_3	4	0	0.00000
ATOM	3686	HCG	LEU	A	322	13.49123	57.34086	4.59083	H_	1	0	0.00000
ATOM	3687	CD1	LEU	A	322	13.13469	59.36548	3.98524	C_3	4	0	0.00000
ATOM	3688	HCD1	LEU	A	322	13.22939	60.38165	4.36956	H_	1	0	0.00000
ATOM	3689	HCD1	LEU	A	322	13.70579	59.28539	3.05983	H_	1	0	0.00000
ATOM	3690	HCD1	LEU	A	322	12.09091	59.18076	3.73305	H_	1	0	0.00000
ATOM	3691	CD2	LEU	A	322	15.17625	58.49851	5.24017	C_3	4	0	0.00000
ATOM	3692	HCD2	LEU	A	322	15.54752	57.71944	5.90663	H_	1	0	0.00000
ATOM	3693	HCD2	LEU	A	322	15.70481	58.41599	4.29139	H_	1	0	0.00000
ATOM	3694	HCD2	LEU	A	322	15.40415	59.46973	5.68188	H_	1	0	0.00000
ATOM	3695	N	ALA	A	323	10.97485	55.74342	6.40900	N_R	3	0	-0.47000
ATOM	3696	HN	ALA	A	323	11.37563	55.76680	7.27597	H_A	1	0	0.31000
ATOM	3697	CA	ALA	A	323	10.45744	54.48280	5.92974	C_3	4	0	0.16000

ATOM	3698	HCA	ALA	A	323	11.03750	54.20421	5.04287	H_	1	0	0.00000
ATOM	3699	C	ALA	A	323	9.01086	54.55038	5.56683	C_R	3	0	0.51000
ATOM	3700	O	ALA	A	323	8.65165	54.20922	4.41016	O_2	1	2	-0.51000
ATOM	3701	CB	ALA	A	323	10.68188	53.37070	6.98532	C_3	4	0	0.00000
ATOM	3702	HCB	ALA	A	323	10.16594	53.60751	7.91557	H_	1	0	0.00000
ATOM	3703	HCB	ALA	A	323	10.30940	52.41348	6.61443	H_	1	0	0.00000
ATOM	3704	HCB	ALA	A	323	11.74345	53.25944	7.20144	H_	1	0	0.00000
ATOM	3705	N	MET	A	324	8.11213	55.03013	6.46679	N_R	3	0	-0.47000
ATOM	3706	HN	MET	A	324	8.44735	55.27257	7.32145	H_A	1	0	0.31000
ATOM	3707	CA	MET	A	324	6.70670	55.23976	6.26983	C_3	4	0	0.16000
ATOM	3708	HCA	MET	A	324	6.26217	54.25622	6.16167	H_	1	0	0.00000
ATOM	3709	C	MET	A	324	6.45548	56.00080	5.03558	C_R	3	0	0.51000
ATOM	3710	O	MET	A	324	5.64429	55.54557	4.19946	O_2	1	2	-0.51000
ATOM	3711	CB	MET	A	324	5.99966	55.98409	7.44933	C_3	4	0	0.00000
ATOM	3712	HCB	MET	A	324	5.03028	56.36231	7.11159	H_	1	0	0.00000
ATOM	3713	HCB	MET	A	324	6.59673	56.85087	7.73597	H_	1	0	0.00000
ATOM	3714	CG	MET	A	324	5.73763	55.11164	8.69889	C_3	4	0	0.04000
ATOM	3715	HCG	MET	A	324	6.66721	54.97672	9.23834	H_	1	0	0.00000
ATOM	3716	HCG	MET	A	324	5.37436	54.13258	8.39824	H_	1	0	0.00000
ATOM	3717	SD	MET	A	324	4.47663	55.77544	9.81642	S_3	2	0	-0.09000
ATOM	3718	CE	MET	A	324	5.43517	57.11532	10.54633	C_3	4	0	0.05000
ATOM	3719	HCE	MET	A	324	5.70860	57.82964	9.77349	H_	1	0	0.00000
ATOM	3720	HCE	MET	A	324	4.82618	57.62236	11.29275	H_	1	0	0.00000
ATOM	3721	HCE	MET	A	324	6.33306	56.72366	11.02442	H_	1	0	0.00000
ATOM	3722	N	LEU	A	325	7.11270	57.15706	4.80963	N_R	3	0	-0.47000
ATOM	3723	HN	LEU	A	325	7.65715	57.51803	5.52013	H_A	1	0	0.31000
ATOM	3724	CA	LEU	A	325	7.02121	57.86009	3.56918	C_3	4	0	0.16000
ATOM	3725	HCA	LEU	A	325	5.96416	58.10492	3.41253	H_	1	0	0.00000
ATOM	3726	C	LEU	A	325	7.51098	57.05002	2.40828	C_R	3	0	0.51000
ATOM	3727	O	LEU	A	325	6.70855	56.68439	1.51539	O_2	1	2	-0.51000
ATOM	3728	CB	LEU	A	325	7.77748	59.20299	3.73790	C_3	4	0	0.00000
ATOM	3729	HCB	LEU	A	325	8.83643	58.99755	3.92396	H_	1	0	0.00000
ATOM	3730	HCB	LEU	A	325	7.40697	59.67160	4.65743	H_	1	0	0.00000
ATOM	3731	CG	LEU	A	325	7.60399	60.18450	2.52720	C_3	4	0	0.00000
ATOM	3732	HCG	LEU	A	325	6.89866	59.76302	1.80517	H_	1	0	0.00000
ATOM	3733	CD1	LEU	A	325	6.98154	61.52457	2.99494	C_3	4	0	0.00000
ATOM	3734	HCD1	LEU	A	325	7.58787	61.96985	3.78197	H_	1	0	0.00000
ATOM	3735	HCD1	LEU	A	325	6.90858	62.22532	2.16866	H_	1	0	0.00000
ATOM	3736	HCD1	LEU	A	325	5.97700	61.35612	3.38895	H_	1	0	0.00000
ATOM	3737	CD2	LEU	A	325	8.94238	60.38287	1.76741	C_3	4	0	0.00000
ATOM	3738	HCD2	LEU	A	325	9.29089	59.43158	1.36203	H_	1	0	0.00000
ATOM	3739	HCD2	LEU	A	325	8.81335	61.07509	0.93820	H_	1	0	0.00000
ATOM	3740	HCD2	LEU	A	325	9.71213	60.77438	2.43345	H_	1	0	0.00000
ATOM	3741	N	ARG	A	326	8.80784	56.67814	2.32340	N_R	3	0	-0.47000
ATOM	3742	HN	ARG	A	326	9.35018	56.82372	3.09220	H_A	1	0	0.31000
ATOM	3743	CA	ARG	A	326	9.47645	56.12657	1.17969	C_3	4	0	0.16000
ATOM	3744	HCA	ARG	A	326	9.42404	56.89774	0.40311	H_	1	0	0.00000
ATOM	3745	C	ARG	A	326	8.85257	54.88169	0.66642	C_R	3	0	0.51000
ATOM	3746	O	ARG	A	326	8.76843	54.75239	-0.57811	O_2	1	2	-0.51000
ATOM	3747	CB	ARG	A	326	10.98145	55.91420	1.51580	C_3	4	0	0.00000
ATOM	3748	HCB	ARG	A	326	11.09048	55.05902	2.18991	H_	1	0	0.00000
ATOM	3749	HCB	ARG	A	326	11.33675	56.80098	2.04886	H_	1	0	0.00000
ATOM	3750	CG	ARG	A	326	11.90891	55.72605	0.27932	C_3	4	0	0.00000
ATOM	3751	HCG	ARG	A	326	11.77486	56.57483	-0.39170	H_	1	0	0.00000
ATOM	3752	HCG	ARG	A	326	11.63109	54.82213	-0.26558	H_	1	0	0.00000
ATOM	3753	CD	ARG	A	326	13.39506	55.62509	0.71727	C_3	4	0	0.38000
ATOM	3754	HCD	ARG	A	326	13.50998	54.69135	1.26661	H_	1	0	0.00000

ATOM	3755	HCD	ARG	A	326	13.63554	56.44728	1.39652	H_	1	0	0.00000
ATOM	3756	NE	ARG	A	326	14.38678	55.60442	-0.29965	N_R	3	0	-0.70000
ATOM	3757	HNE	ARG	A	326	14.98669	54.84974	-0.28963	H_A	1	0	0.44000
ATOM	3758	CZ	ARG	A	326	14.65787	56.58437	-1.16192	C_R	3	0	0.64000
ATOM	3759	NH1	ARG	A	326	14.01996	57.73253	-1.29802	N_R	3	0	-0.80000
ATOM	3760	HNH1	ARG	A	326	14.40230	58.33823	-1.92986	H_A	1	0	0.46000
ATOM	3761	HNH1	ARG	A	326	13.23813	57.94638	-0.78105	H_A	1	0	0.46000
ATOM	3762	NH2	ARG	A	326	15.70368	56.46832	-1.94821	N_R	3	0	-0.80000
ATOM	3763	HNH2	ARG	A	326	15.91610	57.19253	-2.54485	H_A	1	0	0.46000
ATOM	3764	HNH2	ARG	A	326	16.23471	55.67787	-1.84288	H_A	1	0	0.46000
ATOM	3765	N	TYR	A	327	8.36527	53.93091	1.50501	N_R	3	0	-0.47000
ATOM	3766	HN	TYR	A	327	8.46601	54.06141	2.45276	H_A	1	0	0.31000
ATOM	3767	CA	TYR	A	327	7.68524	52.73565	1.07084	C_3	4	0	0.16000
ATOM	3768	HCA	TYR	A	327	7.71614	52.65305	-0.01932	H_	1	0	0.00000
ATOM	3769	C	TYR	A	327	6.22278	52.78114	1.39173	C_R	3	0	0.51000
ATOM	3770	O	TYR	A	327	5.57487	51.70751	1.36089	O_2	1	2	-0.51000
ATOM	3771	CB	TYR	A	327	8.40408	51.44992	1.60076	C_3	4	0	0.00000
ATOM	3772	HC	TYR	A	327	8.10289	50.59965	0.98180	H_	1	0	0.00000
ATOM	3773	HC	TYR	A	327	8.03125	51.25676	2.60381	H_	1	0	0.00000
ATOM	3774	CG	TYR	A	327	9.89769	51.46344	1.64079	C_R	3	0	0.00000
ATOM	3775	CD1	TYR	A	327	10.67762	51.94082	0.55818	C_R	3	0	0.00000
ATOM	3776	HCD1	TYR	A	327	10.22472	52.24014	-0.31062	H_	1	0	0.00000
ATOM	3777	CD2	TYR	A	327	10.57672	50.96204	2.77852	C_R	3	0	0.00000
ATOM	3778	HCD2	TYR	A	327	10.05557	50.56118	3.56273	H_	1	0	0.00000
ATOM	3779	CE1	TYR	A	327	12.08180	52.02596	0.65932	C_R	3	0	0.00000
ATOM	3780	HCE1	TYR	A	327	12.62385	52.41307	-0.11563	H_	1	0	0.00000
ATOM	3781	CE2	TYR	A	327	11.97996	51.00818	2.86013	C_R	3	0	0.00000
ATOM	3782	HCE2	TYR	A	327	12.44583	50.64250	3.68945	H_	1	0	0.00000
ATOM	3783	CZ	TYR	A	327	12.73248	51.59080	1.82619	C_R	3	0	0.11000
ATOM	3784	OH	TYR	A	327	14.06404	51.74247	1.99694	O_R	2	2	-0.54000
ATOM	3785	HOH	TYR	A	327	14.64696	52.19885	1.36702	H_A	1	0	0.43000
ATOM	3786	N	GLY	A	328	5.54573	53.93917	1.62433	N_R	3	0	-0.47000
ATOM	3787	HN	GLY	A	328	6.02851	54.77382	1.62150	H_A	1	0	0.31000
ATOM	3788	CA	GLY	A	328	4.11416	54.05194	1.74116	C_3	4	0	0.16000
ATOM	3789	HCA	GLY	A	328	3.69089	53.80446	0.76358	H_	1	0	0.00000
ATOM	3790	HCA	GLY	A	328	3.89163	55.10603	1.91652	H_	1	0	0.00000
ATOM	3791	C	GLY	A	328	3.41834	53.26556	2.79992	C_R	3	0	0.51000
ATOM	3792	O	GLY	A	328	2.52942	52.44736	2.46518	O_2	1	2	-0.51000
ATOM	3793	N	ILE	A	329	3.67790	53.48764	4.11039	N_R	3	0	-0.47000
ATOM	3794	HN	ILE	A	329	4.34524	54.15227	4.25863	H_A	1	0	0.31000
ATOM	3795	CA	ILE	A	329	3.02934	52.87173	5.25035	C_3	4	0	0.16000
ATOM	3796	HCA	ILE	A	329	2.32325	52.12534	4.88849	H_	1	0	0.00000
ATOM	3797	C	ILE	A	329	2.29009	53.91770	6.03287	C_R	3	0	0.51000
ATOM	3798	O	ILE	A	329	2.97605	54.87668	6.46014	O_2	1	2	-0.51000
ATOM	3799	CB	ILE	A	329	4.02805	52.08323	6.17266	C_3	4	0	0.00000
ATOM	3800	HC	ILE	A	329	4.70311	52.79766	6.63010	H_	1	0	0.00000
ATOM	3801	CG1	ILE	A	329	4.89309	51.04103	5.38655	C_3	4	0	0.00000
ATOM	3802	HCG1	ILE	A	329	4.36651	50.72172	4.48308	H_	1	0	0.00000
ATOM	3803	HCG1	ILE	A	329	5.05587	50.14691	5.98748	H_	1	0	0.00000
ATOM	3804	CG2	ILE	A	329	3.30000	51.41415	7.37862	C_3	4	0	0.00000
ATOM	3805	HCG2	ILE	A	329	2.53217	50.73217	7.01962	H_	1	0	0.00000
ATOM	3806	HCG2	ILE	A	329	4.00733	50.86269	7.99960	H_	1	0	0.00000
ATOM	3807	HCG2	ILE	A	329	2.82985	52.16436	8.01370	H_	1	0	0.00000
ATOM	3808	CD1	ILE	A	329	6.30272	51.53595	4.99558	C_3	4	0	0.00000
ATOM	3809	HCD1	ILE	A	329	6.87065	51.80620	5.88504	H_	1	0	0.00000
ATOM	3810	HCD1	ILE	A	329	6.83140	50.73137	4.49023	H_	1	0	0.00000
ATOM	3811	HCD1	ILE	A	329	6.23953	52.39750	4.33403	H_	1	0	0.00000

ATOM	3812	N	PRO	A	330	0.95298	53.89322	6.33858	N_R	3	0	-0.29000
ATOM	3813	CA	PRO	A	330	0.30553	54.90387	7.14214	C_3	4	0	0.11000
ATOM	3814	HCA	PRO	A	330	0.58353	55.89188	6.75355	H_	1	0	0.00000
ATOM	3815	C	PRO	A	330	0.60356	54.84907	8.57991	C_2	3	0	0.51000
ATOM	3816	O	PRO	A	330	0.98613	55.87777	9.12188	O_2	1	2	-0.51000
ATOM	3817	CB	PRO	A	330	-1.20382	54.71910	6.84866	C_3	4	0	0.00000
ATOM	3818	HCB	PRO	A	330	-1.49840	55.34316	5.99861	H_	1	0	0.00000
ATOM	3819	HCB	PRO	A	330	-1.84605	54.97021	7.69845	H_	1	0	0.00000
ATOM	3820	CG	PRO	A	330	-1.33704	53.24237	6.46030	C_3	4	0	0.00000
ATOM	3821	HCG	PRO	A	330	-2.14392	53.08544	5.73927	H_	1	0	0.00000
ATOM	3822	HCG	PRO	A	330	-1.53207	52.63872	7.35001	H_	1	0	0.00000
ATOM	3823	CD	PRO	A	330	0.03844	52.89725	5.86456	C_3	4	0	0.18000
ATOM	3824	HCD	PRO	A	330	0.33673	51.89393	6.17967	H_	1	0	0.00000
ATOM	3825	HCD	PRO	A	330	-0.01256	52.93745	4.77218	H_	1	0	0.00000
ATOM	3826	N	ASP	A	331	0.41526	53.75020	9.29696	N_R	3	0	-0.47000
ATOM	3827	HN	ASP	A	331	0.21409	52.93677	8.81452	H_A	1	0	0.31000
ATOM	3828	CA	ASP	A	331	0.41859	53.66151	10.73900	C_3	4	0	0.16000
ATOM	3829	HCA	ASP	A	331	0.31534	54.66783	11.15668	H_	1	0	0.00000
ATOM	3830	C	ASP	A	331	1.68442	53.06161	11.27435	C_R	3	0	0.51000
ATOM	3831	O	ASP	A	331	1.98746	51.86271	11.04239	O_2	1	2	-0.51000
ATOM	3832	CB	ASP	A	331	-0.86128	52.89518	11.19528	C_3	4	0	-0.10000
ATOM	3833	HCB	ASP	A	331	-0.80392	51.85713	10.86455	H_	1	0	0.00000
ATOM	3834	HCB	ASP	A	331	-1.74412	53.34383	10.73096	H_	1	0	0.00000
ATOM	3835	CG	ASP	A	331	-1.03916	52.89622	12.65967	C_R	3	0	0.62000
ATOM	3836	OD1	ASP	A	331	-0.07510	52.58639	13.38282	O_2	1	2	-0.76000
ATOM	3837	OD2	ASP	A	331	-2.11095	53.18086	13.24255	O_2	1	2	-0.76000
ATOM	3838	N	ILE	A	332	2.46132	53.80214	12.10025	N_R	3	0	-0.47000
ATOM	3839	HN	ILE	A	332	2.14125	54.68486	12.30584	H_A	1	0	0.31000
ATOM	3840	CA	ILE	A	332	3.71345	53.40291	12.69364	C_3	4	0	0.16000
ATOM	3841	HCA	ILE	A	332	4.40398	53.28410	11.85389	H_	1	0	0.00000
ATOM	3842	C	ILE	A	332	3.66067	52.10501	13.43612	C_R	3	0	0.51000
ATOM	3843	O	ILE	A	332	4.63552	51.31439	13.36104	O_2	1	2	-0.51000
ATOM	3844	CB	ILE	A	332	4.24156	54.58529	13.58705	C_3	4	0	0.00000
ATOM	3845	HCB	ILE	A	332	4.05756	55.50967	13.02897	H_	1	0	0.00000
ATOM	3846	CG1	ILE	A	332	5.78066	54.55392	13.84793	C_3	4	0	0.00000
ATOM	3847	HCG1	ILE	A	332	6.29348	54.35149	12.90506	H_	1	0	0.00000
ATOM	3848	HCG1	ILE	A	332	6.02583	53.74172	14.53739	H_	1	0	0.00000
ATOM	3849	CG2	ILE	A	332	3.44116	54.69179	14.91419	C_3	4	0	0.00000
ATOM	3850	HCG2	ILE	A	332	3.65083	53.84708	15.56586	H_	1	0	0.00000
ATOM	3851	HCG2	ILE	A	332	3.69153	55.60422	15.44639	H_	1	0	0.00000
ATOM	3852	HCG2	ILE	A	332	2.37597	54.69796	14.70266	H_	1	0	0.00000
ATOM	3853	CD1	ILE	A	332	6.36047	55.88505	14.39936	C_3	4	0	0.00000
ATOM	3854	HCD1	ILE	A	332	5.92943	56.13288	15.36606	H_	1	0	0.00000
ATOM	3855	HCD1	ILE	A	332	7.43643	55.80579	14.53241	H_	1	0	0.00000
ATOM	3856	HCD1	ILE	A	332	6.16156	56.69983	13.70358	H_	1	0	0.00000
ATOM	3857	N	ARG	A	333	2.54822	51.71281	14.11702	N_R	3	0	-0.47000
ATOM	3858	HN	ARG	A	333	1.72357	52.17184	13.95014	H_A	1	0	0.31000
ATOM	3859	CA	ARG	A	333	2.47622	50.55254	14.96143	C_3	4	0	0.16000
ATOM	3860	HCA	ARG	A	333	3.26793	50.64513	15.71344	H_	1	0	0.00000
ATOM	3861	C	ARG	A	333	2.71920	49.31509	14.17157	C_R	3	0	0.51000
ATOM	3862	O	ARG	A	333	3.14161	48.29826	14.77931	O_2	1	2	-0.51000
ATOM	3863	CB	ARG	A	333	1.11682	50.39172	15.71097	C_3	4	0	0.00000
ATOM	3864	HCB	ARG	A	333	1.15525	49.44098	16.25297	H_	1	0	0.00000
ATOM	3865	HCB	ARG	A	333	0.31688	50.28412	14.97364	H_	1	0	0.00000
ATOM	3866	CG	ARG	A	333	0.73515	51.47763	16.77246	C_3	4	0	0.00000
ATOM	3867	HCG	ARG	A	333	1.63981	51.91996	17.19499	H_	1	0	0.00000
ATOM	3868	HCG	ARG	A	333	0.20453	50.96823	17.58122	H_	1	0	0.00000

ATOM	3869	CD	ARG	A	333	-0.19623	52.59959	16.25221	C_3	4	0	0.38000
ATOM	3870	HCD	ARG	A	333	-0.88826	52.13300	15.55327	H_	1	0	0.00000
ATOM	3871	HCD	ARG	A	333	0.40291	53.35357	15.74172	H_	1	0	0.00000
ATOM	3872	NE	ARG	A	333	-0.98543	53.25379	17.24803	N_R	3	0	-0.70000
ATOM	3873	HNE	ARG	A	333	-0.60666	53.49364	18.09755	H_A	1	0	0.44000
ATOM	3874	CZ	ARG	A	333	-2.26633	53.59914	17.09901	C_R	3	0	0.64000
ATOM	3875	NH1	ARG	A	333	-2.98270	53.56606	15.97890	N_R	3	0	-0.80000
ATOM	3876	HNH1	ARG	A	333	-3.91313	53.80715	16.00669	H_A	1	0	0.46000
ATOM	3877	HNH1	ARG	A	333	-2.58726	53.35766	15.12262	H_A	1	0	0.46000
ATOM	3878	NH2	ARG	A	333	-2.82438	54.04970	18.20637	N_R	3	0	-0.80000
ATOM	3879	HNH2	ARG	A	333	-3.75242	54.30440	18.25278	H_A	1	0	0.46000
ATOM	3880	HNH2	ARG	A	333	-2.22664	54.15748	18.94823	H_A	1	0	0.46000
ATOM	3881	N	TYR	A	334	2.55901	49.27684	12.81644	N_R	3	0	-0.47000
ATOM	3882	HN	TYR	A	334	2.29695	50.08694	12.35121	H_A	1	0	0.31000
ATOM	3883	CA	TYR	A	334	2.84842	48.10884	12.03464	C_3	4	0	0.16000
ATOM	3884	HCA	TYR	A	334	2.18495	47.31885	12.40114	H_	1	0	0.00000
ATOM	3885	C	TYR	A	334	4.25122	47.64113	12.23947	C_R	3	0	0.51000
ATOM	3886	O	TYR	A	334	4.46612	46.40417	12.18912	O_2	1	2	-0.51000
ATOM	3887	CB	TYR	A	334	2.57394	48.31052	10.51359	C_3	4	0	0.00000
ATOM	3888	HCB	TYR	A	334	2.96028	47.44488	9.97781	H_	1	0	0.00000
ATOM	3889	HCB	TYR	A	334	3.14578	49.18013	10.17496	H_	1	0	0.00000
ATOM	3890	CG	TYR	A	334	1.14231	48.42392	10.11207	C_R	3	0	0.00000
ATOM	3891	CD1	TYR	A	334	0.22140	47.38365	10.39140	C_R	3	0	0.00000
ATOM	3892	HCD1	TYR	A	334	0.53312	46.52608	10.85600	H_	1	0	0.00000
ATOM	3893	CD2	TYR	A	334	0.67658	49.54576	9.38728	C_R	3	0	0.00000
ATOM	3894	HCD2	TYR	A	334	1.31655	50.29407	9.12441	H_	1	0	0.00000
ATOM	3895	CE1	TYR	A	334	-1.13627	47.50359	10.03067	C_R	3	0	0.00000
ATOM	3896	HCE1	TYR	A	334	-1.78889	46.75016	10.25907	H_	1	0	0.00000
ATOM	3897	CE2	TYR	A	334	-0.67346	49.65780	9.00871	C_R	3	0	0.00000
ATOM	3898	HCE2	TYR	A	334	-0.98882	50.48035	8.49209	H_	1	0	0.00000
ATOM	3899	CZ	TYR	A	334	-1.59087	48.65370	9.35938	C_R	3	0	0.11000
ATOM	3900	OH	TYR	A	334	-2.90085	48.80607	9.05849	O_R	2	2	-0.54000
ATOM	3901	HOH	TYR	A	334	-3.55340	48.13369	9.32822	H_A	1	0	0.43000
ATOM	3902	N	PHE	A	335	5.26094	48.48759	12.57721	N_R	3	0	-0.47000
ATOM	3903	HN	PHE	A	335	5.05050	49.41367	12.75952	H_A	1	0	0.31000
ATOM	3904	CA	PHE	A	335	6.62236	48.05474	12.77371	C_3	4	0	0.16000
ATOM	3905	HCA	PHE	A	335	6.87726	47.40672	11.92927	H_	1	0	0.00000
ATOM	3906	C	PHE	A	335	6.81077	47.22833	13.99844	C_R	3	0	0.51000
ATOM	3907	O	PHE	A	335	7.90460	46.62861	14.13602	O_2	1	2	-0.51000
ATOM	3908	CB	PHE	A	335	7.61543	49.25008	12.74562	C_3	4	0	0.00000
ATOM	3909	HCB	PHE	A	335	8.64228	48.87468	12.77316	H_	1	0	0.00000
ATOM	3910	HCB	PHE	A	335	7.46868	49.84218	13.65462	H_	1	0	0.00000
ATOM	3911	CG	PHE	A	335	7.48409	50.09979	11.53121	C_R	3	0	0.00000
ATOM	3912	CD1	PHE	A	335	7.68363	49.57157	10.23262	C_R	3	0	0.00000
ATOM	3913	HCD1	PHE	A	335	7.92718	48.58772	10.10858	H_	1	0	0.00000
ATOM	3914	CD2	PHE	A	335	7.16284	51.46721	11.65670	C_R	3	0	0.00000
ATOM	3915	HCD2	PHE	A	335	7.02661	51.88506	12.57852	H_	1	0	0.00000
ATOM	3916	CE1	PHE	A	335	7.55423	50.39063	9.09438	C_R	3	0	0.00000
ATOM	3917	HCE1	PHE	A	335	7.68907	50.00069	8.16144	H_	1	0	0.00000
ATOM	3918	CE2	PHE	A	335	7.04128	52.28437	10.52412	C_R	3	0	0.00000
ATOM	3919	HCE2	PHE	A	335	6.81408	53.26617	10.65156	H_	1	0	0.00000
ATOM	3920	CZ	PHE	A	335	7.23999	51.75159	9.23963	C_R	3	0	0.00000
ATOM	3921	HCZ	PHE	A	335	7.16014	52.34862	8.41492	H_	1	0	0.00000
ATOM	3922	N	PHE	A	336	5.81773	47.05552	14.90637	N_R	3	0	-0.47000
ATOM	3923	HN	PHE	A	336	5.00243	47.55803	14.81100	H_A	1	0	0.31000
ATOM	3924	CA	PHE	A	336	5.82716	46.11071	15.98927	C_3	4	0	0.16000
ATOM	3925	HCA	PHE	A	336	6.64274	45.39079	15.86649	H_	1	0	0.00000

ATOM	3926	C	PHE	A	336	4.61265	45.25096	15.93402	C_R	3	0	0.51000
ATOM	3927	O	PHE	A	336	4.31533	44.54093	16.92521	O_2	1	2	-0.51000
ATOM	3928	CB	PHE	A	336	6.04582	46.88238	17.33128	C_3	4	0	0.00000
ATOM	3929	HCB	PHE	A	336	5.70054	46.29338	18.18492	H_	1	0	0.00000
ATOM	3930	HCB	PHE	A	336	5.45429	47.80313	17.33188	H_	1	0	0.00000
ATOM	3931	CG	PHE	A	336	7.49358	47.17691	17.52500	C_R	3	0	0.00000
ATOM	3932	CD1	PHE	A	336	8.36560	46.14715	17.95636	C_R	3	0	0.00000
ATOM	3933	HCD1	PHE	A	336	7.99611	45.22275	18.19352	H_	1	0	0.00000
ATOM	3934	CD2	PHE	A	336	8.03981	48.44654	17.22231	C_R	3	0	0.00000
ATOM	3935	HCD2	PHE	A	336	7.43406	49.21341	16.92096	H_	1	0	0.00000
ATOM	3936	CE1	PHE	A	336	9.75155	46.36648	18.04544	C_R	3	0	0.00000
ATOM	3937	HCE1	PHE	A	336	10.37137	45.61150	18.34867	H_	1	0	0.00000
ATOM	3938	CE2	PHE	A	336	9.42889	48.66239	17.30334	C_R	3	0	0.00000
ATOM	3939	HCE2	PHE	A	336	9.81950	49.57503	17.06275	H_	1	0	0.00000
ATOM	3940	CZ	PHE	A	336	10.28395	47.62080	17.70555	C_R	3	0	0.00000
ATOM	3941	HCZ	PHE	A	336	11.29303	47.77412	17.75290	H_	1	0	0.00000
ATOM	3942	N	GLY	A	337	3.90407	45.09787	14.78412	N_R	3	0	-0.47000
ATOM	3943	HN	GLY	A	337	4.16396	45.59432	14.00200	H_A	1	0	0.31000
ATOM	3944	CA	GLY	A	337	2.83022	44.17466	14.59550	C_3	4	0	0.16000
ATOM	3945	HCA	GLY	A	337	2.09705	44.64599	13.93884	H_	1	0	0.00000
ATOM	3946	HCA	GLY	A	337	2.31838	43.94658	15.53453	H_	1	0	0.00000
ATOM	3947	C	GLY	A	337	3.31711	42.93436	13.94927	C_R	3	0	0.51000
ATOM	3948	O	GLY	A	337	3.90990	43.03317	12.84536	O_2	1	2	-0.51000
ATOM	3949	N	GLY	A	338	3.08755	41.71865	14.51502	N_R	3	0	-0.47000
ATOM	3950	HN	GLY	A	338	2.64993	41.72188	15.38146	H_A	1	0	0.31000
ATOM	3951	CA	GLY	A	338	3.40925	40.43379	13.94689	C_3	4	0	0.16000
ATOM	3952	HCA	GLY	A	338	3.34819	39.69294	14.74671	H_	1	0	0.00000
ATOM	3953	HCA	GLY	A	338	4.44034	40.43999	13.58615	H_	1	0	0.00000
ATOM	3954	C	GLY	A	338	2.50756	40.03298	12.83511	C_R	3	0	0.51000
ATOM	3955	O	GLY	A	338	1.88578	38.94457	12.83094	O_2	1	2	-0.51000
ATOM	3956	N	ARG	A	339	2.36716	40.90656	11.82165	N_R	3	0	-0.47000
ATOM	3957	HN	ARG	A	339	2.90818	41.68233	11.94869	H_A	1	0	0.31000
ATOM	3958	CA	ARG	A	339	1.46455	40.86792	10.71886	C_3	4	0	0.16000
ATOM	3959	HCA	ARG	A	339	0.67565	40.13465	10.91226	H_	1	0	0.00000
ATOM	3960	C	ARG	A	339	2.19586	40.44888	9.49130	C_R	3	0	0.51000
ATOM	3961	O	ARG	A	339	2.68131	41.28069	8.68663	O_2	1	2	-0.51000
ATOM	3962	CB	ARG	A	339	0.78138	42.26954	10.65474	C_3	4	0	0.00000
ATOM	3963	HCB	ARG	A	339	1.55277	43.02345	10.47680	H_	1	0	0.00000
ATOM	3964	HCB	ARG	A	339	0.34405	42.49971	11.63114	H_	1	0	0.00000
ATOM	3965	CG	ARG	A	339	-0.32922	42.44038	9.57942	C_3	4	0	0.00000
ATOM	3966	HCG	ARG	A	339	0.01713	42.03202	8.62998	H_	1	0	0.00000
ATOM	3967	HCG	ARG	A	339	-0.49787	43.51161	9.43659	H_	1	0	0.00000
ATOM	3968	CD	ARG	A	339	-1.68622	41.78913	9.93467	C_3	4	0	0.38000
ATOM	3969	HCD	ARG	A	339	-2.08360	42.23701	10.84984	H_	1	0	0.00000
ATOM	3970	HCD	ARG	A	339	-1.54667	40.71702	10.09444	H_	1	0	0.00000
ATOM	3971	NE	ARG	A	339	-2.61040	41.99802	8.86694	N_R	3	0	-0.70000
ATOM	3972	HNE	ARG	A	339	-2.34931	42.61466	8.16917	H_A	1	0	0.44000
ATOM	3973	CZ	ARG	A	339	-3.81808	41.44186	8.76176	C_R	3	0	0.64000
ATOM	3974	NH1	ARG	A	339	-4.33449	40.61666	9.66158	N_R	3	0	-0.80000
ATOM	3975	HNH1	ARG	A	339	-5.21544	40.24258	9.52884	H_A	1	0	0.46000
ATOM	3976	HNH1	ARG	A	339	-3.83244	40.39881	10.45826	H_A	1	0	0.46000
ATOM	3977	NH2	ARG	A	339	-4.54659	41.72579	7.69509	N_R	3	0	-0.80000
ATOM	3978	HNH2	ARG	A	339	-5.42590	41.33807	7.59188	H_A	1	0	0.46000
ATOM	3979	HNH2	ARG	A	339	-4.20333	42.32705	7.01957	H_A	1	0	0.46000
ATOM	3980	N	LEU	A	340	2.28221	39.12903	9.20394	N_R	3	0	-0.47000
ATOM	3981	HN	LEU	A	340	1.97158	38.52029	9.89233	H_A	1	0	0.31000
ATOM	3982	CA	LEU	A	340	2.81724	38.56417	7.99226	C_3	4	0	0.16000

ATOM	3983	HCA	LEU	A	340	3.89148	38.75122	7.99652	H_	1	0	0.00000
ATOM	3984	C	LEU	A	340	2.23631	39.22673	6.79311	C_R	3	0	0.51000
ATOM	3985	O	LEU	A	340	3.00430	39.73685	5.95034	O_2	1	2	-0.51000
ATOM	3986	CB	LEU	A	340	2.58029	37.02003	7.94170	C_3	4	0	0.00000
ATOM	3987	HCB	LEU	A	340	2.59709	36.68356	6.90181	H_	1	0	0.00000
ATOM	3988	HCB	LEU	A	340	1.57156	36.80847	8.31096	H_	1	0	0.00000
ATOM	3989	CG	LEU	A	340	3.59859	36.11984	8.71310	C_3	4	0	0.00000
ATOM	3990	HCG	LEU	A	340	3.21065	35.09692	8.64956	H_	1	0	0.00000
ATOM	3991	CD1	LEU	A	340	5.00159	36.08289	8.04145	C_3	4	0	0.00000
ATOM	3992	HCD1	LEU	A	340	5.47369	37.06479	8.04636	H_	1	0	0.00000
ATOM	3993	HCD1	LEU	A	340	5.65608	35.38867	8.57044	H_	1	0	0.00000
ATOM	3994	HCD1	LEU	A	340	4.91703	35.74248	7.00759	H_	1	0	0.00000
ATOM	3995	CD2	LEU	A	340	3.69732	36.45079	10.22545	C_3	4	0	0.00000
ATOM	3996	HCD2	LEU	A	340	2.71133	36.38514	10.68945	H_	1	0	0.00000
ATOM	3997	HCD2	LEU	A	340	4.35527	35.73879	10.72616	H_	1	0	0.00000
ATOM	3998	HCD2	LEU	A	340	4.09648	37.45331	10.38209	H_	1	0	0.00000
ATOM	3999	N	LYS	A	341	0.89742	39.36985	6.65960	N_R	3	0	-0.47000
ATOM	4000	HN	LYS	A	341	0.35268	38.97959	7.35596	H_A	1	0	0.31000
ATOM	4001	CA	LYS	A	341	0.23077	40.03236	5.56664	C_3	4	0	0.16000
ATOM	4002	HCA	LYS	A	341	0.65893	39.60585	4.66153	H_	1	0	0.00000
ATOM	4003	C	LYS	A	341	0.49847	41.50001	5.44185	C_R	3	0	0.51000
ATOM	4004	O	LYS	A	341	-0.02890	42.11746	4.48723	O_2	1	2	-0.51000
ATOM	4005	CB	LYS	A	341	-1.29465	39.67073	5.61104	C_3	4	0	0.00000
ATOM	4006	HCB	LYS	A	341	-1.85453	40.52153	6.01224	H_	1	0	0.00000
ATOM	4007	HCB	LYS	A	341	-1.47524	38.85159	6.31270	H_	1	0	0.00000
ATOM	4008	CG	LYS	A	341	-1.94078	39.26178	4.25144	C_3	4	0	0.00000
ATOM	4009	HCG	LYS	A	341	-1.92791	40.13230	3.59165	H_	1	0	0.00000
ATOM	4010	HCG	LYS	A	341	-2.99036	39.02173	4.44142	H_	1	0	0.00000
ATOM	4011	CD	LYS	A	341	-1.30806	38.06165	3.47819	C_3	4	0	0.00000
ATOM	4012	HCD	LYS	A	341	-0.33083	38.35150	3.09052	H_	1	0	0.00000
ATOM	4013	HCD	LYS	A	341	-1.93453	37.85906	2.60528	H_	1	0	0.00000
ATOM	4014	CE	LYS	A	341	-1.17025	36.74014	4.27874	C_3	4	0	0.31000
ATOM	4015	HCE	LYS	A	341	-2.16148	36.32092	4.46774	H_	1	0	0.00000
ATOM	4016	HCE	LYS	A	341	-0.68288	36.91427	5.23856	H_	1	0	0.00000
ATOM	4017	NZ	LYS	A	341	-0.36542	35.74675	3.55412	N_3	4	0	-0.30000
ATOM	4018	HNZ	LYS	A	341	0.58256	36.07736	3.47644	H_A	1	0	0.33000
ATOM	4019	HNZ	LYS	A	341	-0.34485	34.87127	4.07518	H_A	1	0	0.33000
ATOM	4020	HNZ	LYS	A	341	-0.73819	35.58868	2.61929	H_A	1	0	0.33000
ATOM	4021	N	PHE	A	342	1.35048	42.15605	6.26720	N_R	3	0	-0.47000
ATOM	4022	HN	PHE	A	342	1.69731	41.71112	7.03987	H_A	1	0	0.31000
ATOM	4023	CA	PHE	A	342	1.95200	43.44174	6.05129	C_3	4	0	0.16000
ATOM	4024	HCA	PHE	A	342	1.42940	44.00204	5.26957	H_	1	0	0.00000
ATOM	4025	C	PHE	A	342	3.34500	43.15854	5.60343	C_R	3	0	0.51000
ATOM	4026	O	PHE	A	342	3.70195	43.54094	4.46687	O_2	1	2	-0.51000
ATOM	4027	CB	PHE	A	342	1.87712	44.28468	7.36163	C_3	4	0	0.00000
ATOM	4028	HCB	PHE	A	342	2.06859	43.63774	8.21254	H_	1	0	0.00000
ATOM	4029	HCB	PHE	A	342	0.85512	44.65203	7.48918	H_	1	0	0.00000
ATOM	4030	CG	PHE	A	342	2.81627	45.43509	7.43663	C_R	3	0	0.00000
ATOM	4031	CD1	PHE	A	342	2.53687	46.63284	6.74354	C_R	3	0	0.00000
ATOM	4032	HCD1	PHE	A	342	1.68960	46.71797	6.17658	H_	1	0	0.00000
ATOM	4033	CD2	PHE	A	342	4.00489	45.35164	8.20400	C_R	3	0	0.00000
ATOM	4034	HCD2	PHE	A	342	4.23166	44.49744	8.71725	H_	1	0	0.00000
ATOM	4035	CE1	PHE	A	342	3.41948	47.72360	6.82686	C_R	3	0	0.00000
ATOM	4036	HCE1	PHE	A	342	3.20480	48.57744	6.31481	H_	1	0	0.00000
ATOM	4037	CE2	PHE	A	342	4.89444	46.43883	8.27628	C_R	3	0	0.00000
ATOM	4038	HCE2	PHE	A	342	5.75087	46.36609	8.83040	H_	1	0	0.00000
ATOM	4039	CZ	PHE	A	342	4.59564	47.63067	7.59515	C_R	3	0	0.00000

ATOM	4040	HCZ	PHE A	342	5.23606	48.42317	7.65990	H_	1 0	0.00000
ATOM	4041	N	LEU A	343	4.19439	42.43737	6.37649	N_R	3 0	-0.47000
ATOM	4042	HN	LEU A	343	3.80718	42.07185	7.17963	H_A	1 0	0.31000
ATOM	4043	CA	LEU A	343	5.59350	42.19317	6.09238	C_3	4 0	0.16000
ATOM	4044	HCA	LEU A	343	6.10860	43.14909	6.18173	H_	1 0	0.00000
ATOM	4045	C	LEU A	343	5.85197	41.66722	4.71639	C_R	3 0	0.51000
ATOM	4046	O	LEU A	343	6.70903	42.19344	3.96253	O_2	1 2	-0.51000
ATOM	4047	CB	LEU A	343	6.19648	41.21999	7.15129	C_3	4 0	0.00000
ATOM	4048	HCB	LEU A	343	7.23823	41.00559	6.88734	H_	1 0	0.00000
ATOM	4049	HCB	LEU A	343	5.64936	40.27453	7.08384	H_	1 0	0.00000
ATOM	4050	CG	LEU A	343	6.16171	41.72267	8.63252	C_3	4 0	0.00000
ATOM	4051	HCG	LEU A	343	5.15290	42.06597	8.86652	H_	1 0	0.00000
ATOM	4052	CD1	LEU A	343	6.47743	40.56348	9.61901	C_3	4 0	0.00000
ATOM	4053	HCD1	LEU A	343	7.47281	40.15742	9.42995	H_	1 0	0.00000
ATOM	4054	HCD1	LEU A	343	6.43348	40.91684	10.65047	H_	1 0	0.00000
ATOM	4055	HCD1	LEU A	343	5.74661	39.76112	9.50996	H_	1 0	0.00000
ATOM	4056	CD2	LEU A	343	7.12322	42.91582	8.88262	C_3	4 0	0.00000
ATOM	4057	HCD2	LEU A	343	6.85086	43.77608	8.27211	H_	1 0	0.00000
ATOM	4058	HCD2	LEU A	343	7.07583	43.22891	9.92682	H_	1 0	0.00000
ATOM	4059	HCD2	LEU A	343	8.14960	42.63161	8.64588	H_	1 0	0.00000
ATOM	4060	N	GLU A	344	5.08209	40.66321	4.24131	N_R	3 0	-0.47000
ATOM	4061	HN	GLU A	344	4.41381	40.32918	4.83309	H_A	1 0	0.31000
ATOM	4062	CA	GLU A	344	5.12647	40.08328	2.92913	C_3	4 0	0.16000
ATOM	4063	HCA	GLU A	344	6.04062	39.48592	2.86531	H_	1 0	0.00000
ATOM	4064	C	GLU A	344	5.14440	41.10453	1.84360	C_R	3 0	0.51000
ATOM	4065	O	GLU A	344	5.87455	40.91601	0.83897	O_2	1 2	-0.51000
ATOM	4066	CB	GLU A	344	3.90107	39.13317	2.75197	C_3	4 0	0.00000
ATOM	4067	HCB	GLU A	344	3.77400	38.88626	1.69312	H_	1 0	0.00000
ATOM	4068	HCB	GLU A	344	2.99749	39.66359	3.07125	H_	1 0	0.00000
ATOM	4069	CG	GLU A	344	4.02970	37.79035	3.52707	C_3	4 0	-0.10000
ATOM	4070	HCG	GLU A	344	4.37700	37.96755	4.54730	H_	1 0	0.00000
ATOM	4071	HCG	GLU A	344	4.77907	37.16463	3.03611	H_	1 0	0.00000
ATOM	4072	CD	GLU A	344	2.74883	37.06013	3.58593	C_R	3 0	0.62000
ATOM	4073	OE1	GLU A	344	1.88677	37.29740	4.45378	O_2	1 2	-0.76000
ATOM	4074	OE2	GLU A	344	2.41581	36.17605	2.77022	O_2	1 2	-0.76000
ATOM	4075	N	GLN A	345	4.47454	42.27808	1.96358	N_R	3 0	-0.47000
ATOM	4076	HN	GLN A	345	4.12358	42.53492	2.81908	H_A	1 0	0.31000
ATOM	4077	CA	GLN A	345	4.37037	43.26753	0.93140	C_3	4 0	0.16000
ATOM	4078	HCA	GLN A	345	4.04796	42.75328	0.01855	H_	1 0	0.00000
ATOM	4079	C	GLN A	345	5.65057	43.91909	0.64259	C_2	3 0	0.51000
ATOM	4080	O	GLN A	345	5.71142	44.60170	-0.37145	O_2	1 2	-0.51000
ATOM	4081	CB	GLN A	345	3.25833	44.30017	1.29844	C_3	4 0	0.00000
ATOM	4082	HCB	GLN A	345	3.20258	45.05453	0.50718	H_	1 0	0.00000
ATOM	4083	HCB	GLN A	345	3.53179	44.81847	2.22145	H_	1 0	0.00000
ATOM	4084	CG	GLN A	345	1.84450	43.66499	1.45606	C_3	4 0	0.00000
ATOM	4085	HCG	GLN A	345	1.87478	42.88251	2.21805	H_	1 0	0.00000
ATOM	4086	HCG	GLN A	345	1.55715	43.19838	0.51125	H_	1 0	0.00000
ATOM	4087	CD	GLN A	345	0.80062	44.64895	1.81133	C_R	3 0	0.55000
ATOM	4088	OE1	GLN A	345	0.60446	45.66913	1.11893	O_2	1 2	-0.55000
ATOM	4089	NE2	GLN A	345	-0.02215	44.49020	2.85573	N_R	3 0	-0.60000
ATOM	4090	HNE2	GLN A	345	-0.67471	45.18110	3.03852	H_A	1 0	0.30000
ATOM	4091	HNE2	GLN A	345	0.01631	43.70740	3.39994	H_A	1 0	0.30000
ATOM	4092	N	PHE A	346	6.73075	43.74549	1.39635	N_R	3 0	-0.47000
ATOM	4093	HN	PHE A	346	6.65347	43.21588	2.19838	H_A	1 0	0.31000
ATOM	4094	CA	PHE A	346	8.03826	44.30143	1.13419	C_3	4 0	0.16000
ATOM	4095	HCA	PHE A	346	7.95632	45.09586	0.38982	H_	1 0	0.00000
ATOM	4096	C	PHE A	346	8.98624	43.30002	0.56175	C_R	3 0	0.51000

ATOM	4097	O	PHE	A	346	10.12792	43.69539	0.20888	O_2	1	2	-0.51000
ATOM	4098	CB	PHE	A	346	8.58344	44.96205	2.43649	C_3	4	0	0.00000
ATOM	4099	HC	PHE	A	346	9.53655	45.45945	2.24108	H_	1	0	0.00000
ATOM	4100	HC	PHE	A	346	8.77955	44.18189	3.17835	H_	1	0	0.00000
ATOM	4101	CG	PHE	A	346	7.61329	45.96050	2.96504	C_R	3	0	0.00000
ATOM	4102	CD1	PHE	A	346	6.73617	45.60937	4.01475	C_R	3	0	0.00000
ATOM	4103	HCD1	PHE	A	346	6.82605	44.71027	4.48350	H_	1	0	0.00000
ATOM	4104	CD2	PHE	A	346	7.47981	47.23679	2.36884	C_R	3	0	0.00000
ATOM	4105	HCD2	PHE	A	346	8.10902	47.52593	1.61811	H_	1	0	0.00000
ATOM	4106	CE1	PHE	A	346	5.70736	46.47499	4.41185	C_R	3	0	0.00000
ATOM	4107	HCE1	PHE	A	346	5.06171	46.18316	5.14392	H_	1	0	0.00000
ATOM	4108	CE2	PHE	A	346	6.46090	48.11580	2.78133	C_R	3	0	0.00000
ATOM	4109	HCE2	PHE	A	346	6.36296	49.03047	2.33758	H_	1	0	0.00000
ATOM	4110	CZ	PHE	A	346	5.56351	47.72599	3.79081	C_R	3	0	0.00000
ATOM	4111	HCZ	PHE	A	346	4.80422	48.34667	4.06935	H_	1	0	0.00000
ATOM	4112	N	LYS	A	347	8.62879	42.00212	0.35197	N_R	3	0	-0.47000
ATOM	4113	HN	LYS	A	347	7.72819	41.73801	0.57627	H_A	1	0	0.31000
ATOM	4114	CA	LYS	A	347	9.47509	40.94847	-0.16036	C_3	4	0	0.16000
ATOM	4115	HCA	LYS	A	347	10.04021	40.56384	0.69453	H_	1	0	0.00000
ATOM	4116	C	LYS	A	347	10.45522	41.34866	-1.21113	C_R	3	0	0.51000
ATOM	4117	O	LYS	A	347	11.66334	41.04295	-1.07171	O_2	1	2	-0.51000
ATOM	4118	CB	LYS	A	347	8.57157	39.80140	-0.72125	C_3	4	0	0.00000
ATOM	4119	HC	LYS	A	347	9.07720	39.27314	-1.53727	H_	1	0	0.00000
ATOM	4120	HC	LYS	A	347	7.66086	40.23221	-1.14903	H_	1	0	0.00000
ATOM	4121	CG	LYS	A	347	8.20328	38.72277	0.33023	C_3	4	0	0.00000
ATOM	4122	HCG	LYS	A	347	7.89047	39.19759	1.26176	H_	1	0	0.00000
ATOM	4123	HCG	LYS	A	347	9.11020	38.15567	0.55042	H_	1	0	0.00000
ATOM	4124	CD	LYS	A	347	7.07456	37.76890	-0.16134	C_3	4	0	0.00000
ATOM	4125	HCD	LYS	A	347	7.04617	37.73977	-1.25424	H_	1	0	0.00000
ATOM	4126	HCD	LYS	A	347	6.11075	38.16209	0.17293	H_	1	0	0.00000
ATOM	4127	CE	LYS	A	347	7.22220	36.31555	0.34381	C_3	4	0	0.31000
ATOM	4128	HCE	LYS	A	347	6.31776	35.75891	0.08657	H_	1	0	0.00000
ATOM	4129	HCE	LYS	A	347	7.34482	36.29086	1.42907	H_	1	0	0.00000
ATOM	4130	NZ	LYS	A	347	8.36105	35.64827	-0.30005	N_3	4	0	-0.30000
ATOM	4131	HNZ	LYS	A	347	9.23030	35.89157	0.14734	H_A	1	0	0.33000
ATOM	4132	HNZ	LYS	A	347	8.24790	34.65446	-0.23812	H_A	1	0	0.33000
ATOM	4133	HNZ	LYS	A	347	8.39962	35.91196	-1.28525	H_A	1	0	0.33000
ATOM	4134	N	GLY	A	348	10.02542	42.01698	-2.30500	N_R	3	0	-0.47000
ATOM	4135	HN	GLY	A	348	9.09134	42.27742	-2.32316	H_A	1	0	0.31000
ATOM	4136	CA	GLY	A	348	10.81987	42.35647	-3.44306	C_3	4	0	0.16000
ATOM	4137	HCA	GLY	A	348	10.19305	42.14938	-4.31382	H_	1	0	0.00000
ATOM	4138	HCA	GLY	A	348	11.69757	41.70973	-3.52525	H_	1	0	0.00000
ATOM	4139	C	GLY	A	348	11.27655	43.76285	-3.50787	C_R	3	0	0.51000
ATOM	4140	O	GLY	A	348	11.65636	44.16413	-4.63260	O_2	1	2	-0.51000
ATOM	4141	N	VAL	A	349	11.33854	44.59182	-2.43063	N_R	3	0	-0.47000
ATOM	4142	HN	VAL	A	349	10.98887	44.26797	-1.59164	H_A	1	0	0.31000
ATOM	4143	CA	VAL	A	349	11.86279	45.94872	-2.47038	C_3	4	0	0.16000
ATOM	4144	HCA	VAL	A	349	11.17765	46.52051	-3.10871	H_	1	0	0.00000
ATOM	4145	C	VAL	A	349	13.21637	46.03469	-3.11504	C_R	3	0	0.51000
ATOM	4146	O	VAL	A	349	13.41172	46.91152	-3.98927	O_2	1	2	-0.51000
ATOM	4147	CB	VAL	A	349	11.79392	46.58728	-1.03796	C_3	4	0	0.00000
ATOM	4148	HC	VAL	A	349	12.16861	45.84181	-0.33016	H_	1	0	0.00000
ATOM	4149	CG1	VAL	A	349	12.64604	47.87350	-0.83171	C_3	4	0	0.00000
ATOM	4150	HCG1	VAL	A	349	12.37539	48.63857	-1.56099	H_	1	0	0.00000
ATOM	4151	HCG1	VAL	A	349	12.50150	48.27825	0.17168	H_	1	0	0.00000
ATOM	4152	HCG1	VAL	A	349	13.70177	47.64281	-0.93343	H_	1	0	0.00000
ATOM	4153	CG2	VAL	A	349	10.32411	46.92251	-0.65784	C_3	4	0	0.00000

ATOM	4154	HCG2	VAL	A	349	9.69525	46.04633	-0.77510	H_	1	0	0.00000
ATOM	4155	HCG2	VAL	A	349	10.26129	47.25830	0.37749	H_	1	0	0.00000
ATOM	4156	HCG2	VAL	A	349	9.92584	47.70723	-1.30362	H_	1	0	0.00000
ATOM	4157	N	LEU	A	350	14.19565	45.14346	-2.82537	N_R	3	0	-0.47000
ATOM	4158	HN	LEU	A	350	14.01745	44.53201	-2.09649	H_A	1	0	0.31000
ATOM	4159	CA	LEU	A	350	15.40758	44.93032	-3.58546	C_3	4	0	0.16000
ATOM	4160	HCA	LEU	A	350	15.42762	45.58102	-4.45917	H_	1	0	0.00000
ATOM	4161	C	LEU	A	350	15.41190	43.54873	-4.14617	C_R	3	0	0.51000
ATOM	4162	O	LEU	A	350	14.62727	42.65638	-3.74678	O_2	1	2	-0.51000
ATOM	4163	CB	LEU	A	350	16.69371	45.18684	-2.72544	C_3	4	0	0.00000
ATOM	4164	HCB	LEU	A	350	17.50213	44.53169	-3.06582	H_	1	0	0.00000
ATOM	4165	HCB	LEU	A	350	16.47911	44.87810	-1.69911	H_	1	0	0.00000
ATOM	4166	CG	LEU	A	350	17.30418	46.62846	-2.70212	C_3	4	0	0.00000
ATOM	4167	HCG	LEU	A	350	18.23209	46.55550	-2.12380	H_	1	0	0.00000
ATOM	4168	CD1	LEU	A	350	17.72939	47.16144	-4.10027	C_3	4	0	0.00000
ATOM	4169	HCD1	LEU	A	350	16.86802	47.31652	-4.74897	H_	1	0	0.00000
ATOM	4170	HCD1	LEU	A	350	18.24534	48.11761	-3.99846	H_	1	0	0.00000
ATOM	4171	HCD1	LEU	A	350	18.41175	46.45911	-4.58162	H_	1	0	0.00000
ATOM	4172	CD2	LEU	A	350	16.42790	47.66078	-1.95250	C_3	4	0	0.00000
ATOM	4173	HCD2	LEU	A	350	16.22191	47.31547	-0.93768	H_	1	0	0.00000
ATOM	4174	HCD2	LEU	A	350	16.94265	48.62060	-1.88307	H_	1	0	0.00000
ATOM	4175	HCD2	LEU	A	350	15.48961	47.81459	-2.47997	H_	1	0	0.00000
ATOM	4176	OXT	LEU	A	350	16.28984	43.19780	-5.11902	O_3	2	2	0.00000
ATOM	4177	HOXT	LEU	A	350	17.17051	43.46872	-4.78568	H_A	1	0	0.00000
HETATM	4178	N	RES	A	444	19.10800	62.52300	20.01400	N_3	4	0	-0.47000
HETATM	4179	HN	RES	A	444	18.83189	61.73269	19.46704	H_A	1	0	0.10334
HETATM	4180	HN	RES	A	444	19.98024	62.90530	19.70897	H_A	1	0	0.10333
HETATM	4181	HN	RES	A	444	19.10773	62.32118	20.99342	H_A	1	0	0.10333
HETATM	4182	CA	RES	A	444	18.08400	63.57100	19.79500	C_3	4	0	0.16000
HETATM	4183	HCA	RES	A	444	18.36582	64.45194	20.37173	H_	1	0	0.00000
HETATM	4184	C	RES	A	444	16.72600	63.11300	20.21700	C_R	3	0	0.51000
HETATM	4185	O	RES	A	444	16.32300	61.82800	20.07300	O_2	1	2	-0.25500
HETATM	4186	CB	RES	A	444	18.01400	63.94400	18.32200	C_3	4	0	0.00000
HETATM	4187	HCB	RES	A	444	17.77308	63.13583	17.78458	H_	1	0	0.00000
HETATM	4188	HCB	RES	A	444	17.31956	64.65132	18.18990	H_	1	0	0.00000
HETATM	4189	HCB	RES	A	444	18.90334	64.29006	18.02315	H_	1	0	0.00000
HETATM	4190	OXT	RES	A	444	15.85400	63.94800	20.81900	O_2	1	2	-0.25500

A

1	N1	-0.7183	-0.4349	0.6025	N.4	1	RES444	-0.7931
2	H2	-0.6460	-1.4463	0.7574	H	1	RES444	0.3556
3	H3	-0.5035	0.0293	1.4948	H	1	RES444	0.3556
4	H4	-1.6728	-0.1973	0.3235	H	1	RES444	0.3556
5	C5	0.2891	0.0166	-0.4164	C.3	1	RES444	-0.0639
6	H6	0.1447	-0.5202	-1.3639	H	1	RES444	0.1982
7	C7	1.7443	-0.2114	-0.0831	C.2	1	RES444	0.8291
8	O8	2.4852	-0.8361	-0.8723	O.2	1	RES444	-0.6532
9	C9	-0.0723	1.5099	-0.6356	C.3	1	RES444	-0.3372
10	H10	0.0859	2.0831	0.2830	H	1	RES444	0.1355
11	H11	0.5708	1.9398	-1.4096	H	1	RES444	0.1355
12	H12	-1.1096	1.6303	-0.9560	H	1	RES444	0.1355
13	O13	2.1884	0.1846	1.0168	O.2	1	RES444	-0.6532

C

1	N1	-0.6269	2.3362	-1.0139	N.4	1	RES444	-0.7789
2	H2	-1.4430	2.6532	-1.5416	H	1	RES444	0.3577
3	H3	-0.0136	3.1395	-0.8247	H	1	RES444	0.3577
4	H4	-0.9306	1.9599	-0.1090	H	1	RES444	0.3577

	5	C5	0.1599	1.3075	-1.7745 C.3	1	RES444	-0.0551
	6	H6	-0.4455	0.4039	-1.9369 H	1	RES444	0.2062
	7	C7	1.4141	0.7937	-1.1032 C.2	1	RES444	0.8321
	8	O8	1.5766	-0.4289	-0.9010 O.2	1	RES444	-0.6408
	9	C9	0.4005	2.0042	-3.1450 C.3	1	RES444	-0.3811
	10	H10	1.1146	2.8279	-3.0315 H	1	RES444	0.1942
	11	H11	-0.5245	2.4055	-3.5671 H	1	RES444	0.1942
	12	S12	1.0724	0.8487	-4.3630 S.3	1	RES444	-0.1296
	13	H13	2.1354	0.5028	-3.5829 H	1	RES444	0.1266
	14	O14	2.2731	1.6126	-0.7073 O.2	1	RES444	-0.6409
D								
	1	N1	-0.8109	2.0993	-1.1149 N.4	1	RES444	-0.7867
	2	H2	-1.4150	2.3444	-1.8913 H	1	RES444	0.3584
	3	H3	-0.3434	2.9418	-0.7603 H	1	RES444	0.3584
	4	H4	-1.3237	1.6337	-0.3674 H	1	RES444	0.3584
	5	C5	0.2373	1.2172	-1.7115 C.3	1	RES444	-0.0556
	6	H6	-0.1029	0.1742	-1.7366 H	1	RES444	0.1740
	7	C7	1.5409	1.1676	-0.9568 C.2	1	RES444	0.7709
	8	O8	2.0023	0.0825	-0.5423 O.2	1	RES444	-0.8321
	9	C9	0.3656	1.7407	-3.1837 C.3	1	RES444	-0.3520
	10	H10	1.1290	1.1537	-3.6926 H	1	RES444	0.1902
	11	H11	0.7058	2.7732	-3.1807 H	1	RES444	0.1902
	12	C12	-0.8140	1.7010	-4.0079 C.2	1	RES444	0.8134
	13	O13	-1.7816	2.4014	-3.7402 O.2	1	RES444	-0.6777
	14	O14	-0.8590	0.9854	-4.9904 O.2	1	RES444	-0.6777
	15	O15	2.1328	2.2384	-0.6949 O.2	1	RES444	-0.8321
E								
	1	N1	-0.0848	2.6480	-0.3232 N.4	1	RES444	-0.8024
	2	H2	0.7332	3.2714	-0.3741 H	1	RES444	0.3698
	3	H3	-0.1762	2.3303	0.6430 H	1	RES444	0.3698
	4	H4	-0.9134	3.1467	-0.6426 H	1	RES444	0.3698
	5	C5	0.2476	1.4901	-1.2148 C.3	1	RES444	-0.0153
	6	H6	-0.4529	0.6624	-1.0603 H	1	RES444	0.1543
	7	C7	1.6003	0.8887	-0.9417 C.2	1	RES444	0.7655
	8	O8	1.7178	-0.3243	-0.6630 O.2	1	RES444	-0.8355
	9	C9	0.0714	2.0342	-2.6645 C.3	1	RES444	-0.2666
	10	H10	0.5774	1.3541	-3.3627 H	1	RES444	0.1611
	11	H11	0.5914	2.9976	-2.7565 H	1	RES444	0.1478
	12	C12	-1.4316	2.1679	-3.1038 C.3	1	RES444	-0.3454
	13	H13	-2.0373	2.6295	-2.3316 H	1	RES444	0.1755
	14	H14	-1.8432	1.1783	-3.3024 H	1	RES444	0.1755
	15	C15	-1.6801	2.9734	-4.2669 C.2	1	RES444	0.7992
	16	O16	-2.1944	2.4872	-5.2582 O.2	1	RES444	-0.6938
	17	O17	-1.4589	4.1699	-4.2117 O.2	1	RES444	-0.6938
	18	O18	2.5962	1.6427	-0.8713 O.2	1	RES444	-0.8355
F								
	1	N1	1.9154	0.6605	-1.5625 N.4	1	RES444	-0.7765
	2	H2	1.6819	0.7300	-2.5624 H	1	RES444	0.3550
	3	H3	1.2454	0.0088	-1.1372 H	1	RES444	0.3550
	4	H4	2.8614	0.2851	-1.4623 H	1	RES444	0.3550
	5	C5	1.7806	2.0276	-0.9401 C.3	1	RES444	-0.0785
	6	H6	1.9320	1.9602	0.1456 H	1	RES444	0.1920
	7	C7	0.4291	2.6845	-1.0828 C.2	1	RES444	0.8452
	8	O8	-0.2632	2.9549	-0.0784 O.2	1	RES444	-0.6471
	9	C9	2.9383	2.8714	-1.5579 C.3	1	RES444	-0.2201
	10	H10	2.7186	3.0588	-2.6149 H	1	RES444	0.1534
	11	H11	3.8827	2.3220	-1.5344 H	1	RES444	0.1534

	12	C12	3.1408	4.1625	-0.8517 C.2	1 RES444	-0.0150
	13	C13	2.5868	5.3594	-1.3580 C.2	1 RES444	-0.1806
	14	H14	2.0266	5.3476	-2.2151 H	1 RES444	0.1658
	15	C15	3.8825	4.2114	0.3507 C.2	1 RES444	-0.1716
	16	H16	4.2862	3.3587	0.7424 H	1 RES444	0.1651
	17	C17	2.7773	6.5806	-0.6839 C.2	1 RES444	-0.1602
	18	H18	2.3663	7.4413	-1.0574 H	1 RES444	0.1689
	19	C19	4.0752	5.4310	1.0273 C.2	1 RES444	-0.1650
	20	H20	4.6130	5.4574	1.8980 H	1 RES444	0.1670
	21	C21	3.5231	6.6157	0.5080 C.2	1 RES444	-0.1800
	22	H22	3.6585	7.5031	0.9997 H	1 RES444	0.1660
	23	O23	-0.0383	2.8560	-2.2313 O.2	1 RES444	-0.6472
G							
	1	N1	-0.8031	-0.3686	0.4190 N.4	1 RES444	-0.7999
	2	H2	-0.6391	0.1962	1.2671 H	1 RES444	0.3580
	3	H3	-1.7431	-0.1649	0.0624 H	1 RES444	0.3580
	4	H4	-0.7596	-1.3564	0.7034 H	1 RES444	0.3580
	5	C5	0.2823	-0.0606	-0.6001 C.3	1 RES444	-0.1335
	6	H6	0.2113	0.9748	-0.9416 H	1 RES444	0.1828
	7	H7	0.1874	-0.7028	-1.4806 H	1 RES444	0.1828
	8	C8	1.6915	-0.1794	-0.1620 C.2	1 RES444	0.7978
	9	O9	2.4699	-0.9596	-0.7458 O.2	1 RES444	-0.6520
	10	O10	2.0661	0.5110	0.8073 O.2	1 RES444	-0.6520
H							
	1	N1	2.2015	2.6326	-0.7057 N.4	1 RES444	-0.7873
	2	H2	2.6335	3.5600	-0.6984 H	1 RES444	0.3573
	3	H3	2.7084	2.0289	-1.3660 H	1 RES444	0.3573
	4	H4	2.2991	2.2155	0.2304 H	1 RES444	0.3573
	5	C5	0.7452	2.6904	-1.0862 C.3	1 RES444	-0.0712
	6	H6	0.1888	3.3056	-0.3632 H	1 RES444	0.1972
	7	C7	0.0084	1.3667	-1.0242 C.2	1 RES444	0.8319
	8	O8	-0.5054	1.0078	0.0553 O.2	1 RES444	-0.6404
	9	C9	0.7343	3.4431	-2.4603 C.3	1 RES444	-0.2519
	10	H10	1.2655	2.8468	-3.2069 H	1 RES444	0.1716
	11	H11	1.2371	4.4076	-2.3724 H	1 RES444	0.1716
	12	C12	-0.6070	3.6815	-3.0127 C.2	1 RES444	0.2352
	13	N13	-1.4602	2.7011	-3.2632 N.3	1 RES444	-0.6676
	14	H14	-1.2365	1.7897	-3.0436 H	1 RES444	0.3809
	15	C15	-1.2502	4.8512	-3.3918 C.2	1 RES444	-0.0308
	16	H16	-0.8705	5.7965	-3.3301 H	1 RES444	0.1690
	17	C17	-2.5952	3.1859	-3.7793 C.2	1 RES444	0.3476
	18	H18	-3.4232	2.6477	-4.0601 H	1 RES444	0.1964
	19	N19	-2.4660	4.5212	-3.8604 N.3	1 RES444	-0.6837
	20	O20	-0.0556	0.5936	-2.0096 O.2	1 RES444	-0.6404
I							
	1	N1	2.1681	3.0215	-0.7045 N.4	1 RES444	-0.8025
	2	H2	2.4339	3.9540	-1.0221 H	1 RES444	0.3585
	3	H3	2.8174	2.3332	-1.1041 H	1 RES444	0.3585
	4	H4	2.2514	2.9520	0.3144 H	1 RES444	0.3585
	5	C5	0.7754	2.6525	-1.1657 C.3	1 RES444	-0.0651
	6	H6	0.0491	3.0930	-0.4745 H	1 RES444	0.2076
	7	C7	0.4050	1.1987	-1.0822 C.2	1 RES444	0.8296
	8	O8	-0.7847	0.8430	-1.2196 O.2	1 RES444	-0.6557
	9	C9	0.4904	3.2547	-2.5879 C.3	1 RES444	-0.1253
	10	H10	-0.5597	3.0005	-2.8080 H	1 RES444	0.1386
	11	C11	1.3023	2.6268	-3.7688 C.3	1 RES444	-0.2229
	12	H12	0.8455	2.9618	-4.7073 H	1 RES444	0.1265

K	13	H13	1.1758	1.5375	-3.7472 H	1	RES444	0.1265
	14	C14	0.5308	4.8094	-2.6044 C.3	1	RES444	-0.3384
	15	H15	1.5253	5.1937	-2.3833 H	1	RES444	0.1221
	16	H16	0.2368	5.1835	-3.5886 H	1	RES444	0.1221
	17	H17	-0.1684	5.2199	-1.8722 H	1	RES444	0.1221
	18	C18	2.8205	2.9372	-3.8520 C.3	1	RES444	-0.3614
	19	H19	3.3672	2.4637	-3.0386 H	1	RES444	0.1188
	20	H20	3.2217	2.5365	-4.7870 H	1	RES444	0.1188
	21	H21	3.0104	4.0108	-3.8430 H	1	RES444	0.1188
	22	O22	1.2891	0.3503	-0.8317 O.2	1	RES444	-0.6557
	1	N1	1.9947	0.9649	-1.2190 N.4	1	RES444	-0.5694
	2	H2	1.7399	0.6243	-2.1586 H	1	RES444	0.4023
	3	H3	1.3901	0.4247	-0.5874 H	1	RES444	0.4023
	4	H4	2.9775	0.7881	-1.0165 H	1	RES444	0.4023
	5	C5	1.5990	2.4154	-1.1729 C.3	1	RES444	-0.1303
	6	H6	1.4751	2.7567	-0.1379 H	1	RES444	0.2151
	7	C7	0.2358	2.6410	-1.7267 C.2	1	RES444	0.8105
	8	O8	-0.2690	3.7760	-1.7021 O.2	1	RES444	-0.8159
	9	C9	2.6864	3.2905	-1.8812 C.3	1	RES444	-0.2199
	10	H10	3.6800	3.0556	-1.4878 H	1	RES444	0.1528
	11	H11	2.4738	4.3357	-1.6115 H	1	RES444	0.1528
	12	C12	2.6707	3.1815	-3.4379 C.3	1	RES444	-0.2426
	13	H13	1.6507	3.3988	-3.7879 H	1	RES444	0.1362
	14	H14	2.9030	2.1555	-3.7409 H	1	RES444	0.1362
	15	C15	3.6461	4.1821	-4.1193 C.3	1	RES444	-0.2358
	16	H16	4.6765	3.8996	-3.8732 H	1	RES444	0.1466
	17	H17	3.4631	5.1845	-3.7101 H	1	RES444	0.1466
	18	C18	3.4368	4.2118	-5.6535 C.3	1	RES444	-0.0796
	19	H19	2.3936	4.5026	-5.8749 H	1	RES444	0.1874
	20	H20	3.5791	3.2002	-6.0700 H	1	RES444	0.1874
	21	N21	4.3953	5.1847	-6.2418 N.4	1	RES444	-0.5832
	22	H22	4.2819	5.2529	-7.2618 H	1	RES444	0.4047
	23	H23	5.3660	4.9125	-6.0485 H	1	RES444	0.4047
	24	H24	4.2474	6.1231	-5.8491 H	1	RES444	0.4047
	25	O25	-0.2759	1.6657	-2.3140 O.2	1	RES444	-0.8159
L	1	N1	2.6709	1.6791	-0.9022 N.4	1	RES444	-0.7918
	2	H2	3.5874	2.1007	-1.0672 H	1	RES444	0.3569
	3	H3	2.5164	0.9220	-1.5818 H	1	RES444	0.3569
	4	H4	2.6496	1.2599	0.0342 H	1	RES444	0.3569
	5	C5	1.5543	2.6794	-1.0518 C.3	1	RES444	-0.0405
	6	H6	1.6224	3.4205	-0.2465 H	1	RES444	0.1713
	7	C7	0.1637	2.1140	-0.9286 C.2	1	RES444	0.8134
	8	O8	-0.6338	2.5587	-0.0754 O.2	1	RES444	-0.6527
	9	C9	1.8376	3.4075	-2.4037 C.3	1	RES444	-0.2358
	10	H10	1.7553	2.6874	-3.2251 H	1	RES444	0.1461
	11	H11	2.8784	3.7431	-2.3879 H	1	RES444	0.1461
	12	C12	0.9162	4.6401	-2.6925 C.3	1	RES444	-0.1411
	13	H13	0.5780	5.0818	-1.7433 H	1	RES444	0.1309
	14	C14	1.6839	5.7401	-3.4703 C.3	1	RES444	-0.3356
	15	H15	2.0522	5.3568	-4.4247 H	1	RES444	0.1179
	16	H16	1.0328	6.5948	-3.6698 H	1	RES444	0.1179
	17	H17	2.5327	6.1022	-2.8869 H	1	RES444	0.1179
	18	C18	-0.3419	4.2489	-3.5113 C.3	1	RES444	-0.3344
	19	H19	-0.9364	3.4980	-2.9879 H	1	RES444	0.1175
	20	H20	-0.9845	5.1181	-3.6675 H	1	RES444	0.1175

M	21	H21	-0.0676	3.8444	-4.4878 H	1 RES444	0.1175
	22	O22	-0.1620	1.1365	-1.6380 O.2	1 RES444	-0.6528
	1	N1	1.9942	0.9676	-1.1617 N.4	1 RES444	-0.8004
	2	H2	2.0027	0.7667	-2.1703 H	1 RES444	0.3600
	3	H3	1.3347	0.3122	-0.7263 H	1 RES444	0.3600
	4	H4	2.9288	0.8147	-0.7762 H	1 RES444	0.3600
	5	C5	1.5232	2.3889	-0.9626 C.3	1 RES444	-0.0542
	6	H6	1.4366	2.6072	0.1091 H	1 RES444	0.2051
	7	C7	0.1461	2.6857	-1.5029 C.2	1 RES444	0.8331
	8	O8	-0.7880	2.9963	-0.7318 O.2	1 RES444	-0.6554
	9	C9	2.6467	3.2918	-1.5667 C.3	1 RES444	-0.2236
	10	H10	2.5301	3.3302	-2.6556 H	1 RES444	0.1515
	11	H11	3.6261	2.8392	-1.3792 H	1 RES444	0.1515
	12	C12	2.7059	4.7380	-0.9850 C.3	1 RES444	-0.3865
	13	H13	3.5721	5.2698	-1.3875 H	1 RES444	0.1746
	14	H14	2.8472	4.6886	0.0972 H	1 RES444	0.1746
	15	S15	1.2429	5.7679	-1.2487 S.3	1 RES444	0.0006
	16	C16	1.5306	6.1534	-2.9845 C.3	1 RES444	-0.4941
	17	H17	1.4866	5.2480	-3.5880 H	1 RES444	0.1662
	18	H18	0.7372	6.8217	-3.3191 H	1 RES444	0.1662
	19	H19	2.4894	6.6520	-3.1172 H	1 RES444	0.1662
	20	O20	-0.0844	2.4860	-2.7169 O.2	1 RES444	-0.6554
N	1	N1	-0.7586	2.1317	-0.4563 N.4	1 RES444	-0.5660
	2	H2	-1.6693	2.4261	-0.8002 H	1 RES444	0.4016
	3	H3	-0.1555	2.9484	-0.2787 H	1 RES444	0.4016
	4	H4	-0.8420	1.5874	0.4049 H	1 RES444	0.4016
	5	C5	-0.1471	1.3423	-1.5677 C.3	1 RES444	-0.1182
	6	H6	-0.5463	0.3181	-1.6014 H	1 RES444	0.2175
	7	C7	1.3168	1.1611	-1.3702 C.2	1 RES444	0.8038
	8	O8	1.8231	0.0260	-1.4016 O.2	1 RES444	-0.8102
	9	C9	-0.4997	2.0994	-2.9024 C.3	1 RES444	-0.3455
	10	H10	-0.1511	1.4901	-3.7368 H	1 RES444	0.2061
	11	H11	0.0467	3.0434	-2.9429 H	1 RES444	0.2061
	12	C12	-1.8936	2.4328	-3.1818 C.2	1 RES444	0.7787
	13	O13	-2.7745	2.5242	-2.3127 O.2	1 RES444	-0.7352
	14	N14	-2.3308	2.7566	-4.3727 N.3	1 RES444	-0.7617
	15	H15	-1.7554	2.7694	-5.1387 H	1 RES444	0.3650
	16	H16	-3.2664	2.9809	-4.4190 H	1 RES444	0.3650
	17	O17	1.9551	2.1964	-1.0933 O.2	1 RES444	-0.8102
P	1	N1	2.3647	1.0002	-0.8895 N.4	1 RES444	-0.5902
	2	H2	1.9074	0.7830	-1.8003 H	1 RES444	0.4070
	3	H3	2.0146	0.3104	-0.2126 H	1 RES444	0.4070
	4	C4	1.8027	2.3591	-0.5998 C.3	1 RES444	-0.0693
	5	H5	1.6523	2.5252	0.4732 H	1 RES444	0.2149
	6	C6	0.4926	2.5818	-1.2090 C.2	1 RES444	0.8017
	7	O7	-0.4113	3.0876	-0.5728 O.2	1 RES444	-0.8147
	8	C8	2.9244	3.2818	-1.1259 C.3	1 RES444	-0.2484
	9	H9	2.8709	4.2785	-0.6724 H	1 RES444	0.1645
	10	H10	2.8438	3.3935	-2.2167 H	1 RES444	0.1598
	11	C11	4.2026	2.5197	-0.7443 C.3	1 RES444	-0.2486
	12	H12	4.4252	2.6683	0.3195 H	1 RES444	0.1548
	13	H13	5.0639	2.8557	-1.3328 H	1 RES444	0.1610
	14	C14	3.8428	1.0492	-1.0211 C.3	1 RES444	-0.0665
	15	H15	4.3532	0.3760	-0.3178 H	1 RES444	0.1904

Q	16	H16	4.1449	0.7727	-2.0429 H	1 RES444	0.1913
	17	O17	0.3144	2.1014	-2.3182 O.2	1 RES444	-0.8147
Q	1	N1	0.2365	2.9182	-0.6239 N.4	1 RES444	-0.7907
	2	H2	1.0739	3.3956	-0.9825 H	1 RES444	0.3572
	3	H3	0.3302	2.8781	0.3986 H	1 RES444	0.3572
	4	H4	-0.5973	3.4571	-0.8699 H	1 RES444	0.3572
	5	C5	0.2072	1.5242	-1.2036 C.3	1 RES444	-0.0823
	6	H6	-0.5621	0.9348	-0.6855 H	1 RES444	0.2093
	7	C7	1.4310	0.7128	-1.0194 C.2	1 RES444	0.8329
	8	O8	1.3784	-0.3982	-0.5200 O.2	1 RES444	-0.6515
	9	C9	-0.2502	1.6534	-2.6911 C.3	1 RES444	-0.2122
	10	H10	-1.2004	2.1992	-2.7329 H	1 RES444	0.1552
	11	H11	-0.4609	0.6444	-3.0799 H	1 RES444	0.1552
	12	C12	0.7887	2.3272	-3.6501 C.3	1 RES444	-0.3259
	13	H13	1.6714	1.6912	-3.7461 H	1 RES444	0.1657
	14	H14	1.1113	3.2919	-3.2683 H	1 RES444	0.1657
	15	C15	0.3039	2.5046	-5.0139 C.2	1 RES444	0.7379
	16	O16	-0.1273	1.5763	-5.7044 O.2	1 RES444	-0.7360
	17	N17	0.2477	3.6520	-5.6474 N.3	1 RES444	-0.7610
	18	H18	0.5417	4.4690	-5.2510 H	1 RES444	0.3588
	19	H19	-0.1019	3.5953	-6.5430 H	1 RES444	0.3588
	20	O20	2.5145	1.2053	-1.2919 O.2	1 RES444	-0.6515
R	1	N1	-1.3523	1.5018	-0.7956 N.4	1 RES444	-0.5770
	2	H2	-2.2735	1.1488	-1.0491 H	1 RES444	0.4042
	3	H3	-1.3526	2.5335	-0.7533 H	1 RES444	0.4042
	4	H4	-1.1092	1.1915	0.1543 H	1 RES444	0.4042
	5	C5	-0.2612	1.1095	-1.7530 C.3	1 RES444	-0.1040
	6	H6	0.0580	0.0748	-1.5529 H	1 RES444	0.2099
	7	C7	0.9791	1.8820	-1.4543 C.2	1 RES444	0.8080
	8	O8	2.0951	1.3394	-1.4653 O.2	1 RES444	-0.8030
	9	C9	-0.7766	1.2017	-3.2427 C.3	1 RES444	-0.2500
	10	H10	-1.8677	1.2645	-3.2847 H	1 RES444	0.1592
	11	H11	-0.5102	0.2529	-3.7307 H	1 RES444	0.1592
	12	C12	-0.1585	2.3284	-4.1392 C.3	1 RES444	-0.2183
	13	H13	-0.3777	2.1173	-5.1927 H	1 RES444	0.1423
	14	H14	0.9379	2.2670	-4.0635 H	1 RES444	0.1423
	15	C15	-0.5977	3.7787	-3.7949 C.3	1 RES444	-0.0307
	16	H16	0.2780	4.4386	-3.8867 H	1 RES444	0.1666
	17	H17	-0.8977	3.8544	-2.7430 H	1 RES444	0.1666
	18	N18	-1.7059	4.1459	-4.6458 N.3	1 RES444	-0.7402
	19	H19	-2.4764	3.5722	-4.6482 H	1 RES444	0.3782
	20	C20	-1.8118	5.1804	-5.4570 C.2	1 RES444	1.0011
	21	N21	-2.9016	5.3038	-6.1493 N.2	1 RES444	-0.7758
	22	H22	-3.5947	4.6495	-6.0612 H	1 RES444	0.3839
	23	H23	-2.9973	6.0502	-6.7434 H	1 RES444	0.3839
	24	N24	-0.9146	6.0999	-5.6247 N.3	1 RES444	-0.8012
	25	H25	-0.0997	6.0425	-5.1236 H	1 RES444	0.3947
	26	H26	-1.0707	6.8193	-6.2373 H	1 RES444	0.3947
	27	O27	0.8071	3.0806	-1.1427 O.2	1 RES444	-0.8030
S	1	N1	2.4884	0.9747	-0.9956 N.4	1 RES444	-0.7910
	2	H2	3.3647	0.8399	-0.4806 H	1 RES444	0.3593
	3	H3	2.6690	0.9100	-2.0065 H	1 RES444	0.3593
	4	H4	1.8482	0.1994	-0.7739 H	1 RES444	0.3593
	5	C5	1.8133	2.3023	-0.6757 C.3	1 RES444	-0.0873

T	6	H6	1.5412	2.3404	0.3851 H	1 RES444	0.2076
	7	C7	0.5038	2.5812	-1.3550 C.2	1 RES444	0.8352
	8	O8	-0.1748	3.5963	-1.0775 O.2	1 RES444	-0.6716
	9	C9	2.8055	3.4680	-0.9369 C.3	1 RES444	0.1126
	10	H10	2.9241	3.6472	-2.0125 H	1 RES444	0.1404
	11	H11	3.7914	3.2391	-0.5207 H	1 RES444	0.1404
	12	O12	2.3216	4.6436	-0.2958 O.3	1 RES444	-0.7259
	13	H13	1.3627	4.6077	-0.5186 H	1 RES444	0.3877
	14	O14	0.0915	1.7681	-2.2080 O.2	1 RES444	-0.6260
	1	N1	2.2244	0.9749	-0.3230 N.4	1 RES444	-0.5846
	2	H2	2.8605	0.9351	0.4734 H	1 RES444	0.4038
	3	H3	2.7697	0.7787	-1.1790 H	1 RES444	0.4038
	4	H4	1.4952	0.2559	-0.2561 H	1 RES444	0.4038
	5	C5	1.6198	2.3493	-0.5239 C.3	1 RES444	-0.1328
V	6	H6	1.0145	2.6716	0.3281 H	1 RES444	0.2221
	7	C7	0.6856	2.3705	-1.6700 C.2	1 RES444	0.8104
	8	O8	-0.4933	2.7178	-1.4916 O.2	1 RES444	-0.8075
	9	C9	2.7166	3.4172	-0.7905 C.3	1 RES444	0.1974
	10	H10	2.2788	4.3671	-1.1488 H	1 RES444	0.1649
	11	O11	3.5769	2.8704	-1.7729 O.3	1 RES444	-0.7156
	12	H12	2.8953	2.5827	-2.4312 H	1 RES444	0.3875
	13	C13	3.6236	3.6923	0.4177 C.3	1 RES444	-0.3537
	14	H14	4.1676	2.7957	0.7125 H	1 RES444	0.1360
	15	H15	4.3600	4.4490	0.1376 H	1 RES444	0.1360
	16	H16	3.0441	4.0672	1.2618 H	1 RES444	0.1360
	17	O17	1.1090	1.9440	-2.7665 O.2	1 RES444	-0.8075
	1	N1	2.9309	1.4357	-1.3722 N.4	1 RES444	-0.7993
	2	H2	3.8872	1.5345	-1.0292 H	1 RES444	0.3571
W	3	H3	2.9033	1.6719	-2.3727 H	1 RES444	0.3571
	4	H4	2.6318	0.4589	-1.2755 H	1 RES444	0.3571
	5	C5	1.9803	2.3565	-0.6376 C.3	1 RES444	-0.0503
	6	H6	1.9392	2.0798	0.4220 H	1 RES444	0.1965
	7	C7	0.5479	2.2570	-1.0905 C.2	1 RES444	0.8317
	8	O8	-0.3526	1.9213	-0.2900 O.2	1 RES444	-0.6498
	9	C9	2.5452	3.8181	-0.7211 C.3	1 RES444	-0.1335
	10	H10	2.6037	4.1013	-1.7829 H	1 RES444	0.1376
	11	C11	1.6201	4.8474	-0.0092 C.3	1 RES444	-0.3468
	12	H12	1.4774	4.5890	1.0427 H	1 RES444	0.1238
	13	H13	2.0379	5.8555	-0.0637 H	1 RES444	0.1238
	14	H14	0.6371	4.8860	-0.4869 H	1 RES444	0.1238
	15	C15	3.9630	3.9514	-0.0949 C.3	1 RES444	-0.3420
	16	H16	4.6972	3.3609	-0.6419 H	1 RES444	0.1210
	17	H17	4.3035	4.9898	-0.1297 H	1 RES444	0.1210
	18	H18	3.9588	3.6307	0.9498 H	1 RES444	0.1210
	19	O19	0.2709	2.4456	-2.2955 O.2	1 RES444	-0.6498
	1	N1	3.0363	1.6404	-0.8698 N.4	1 RES444	-0.7999
	2	H2	3.7485	1.9685	-0.2064 H	1 RES444	0.3568
	3	H3	3.3618	1.8248	-1.8264 H	1 RES444	0.3568
	4	H4	2.9100	0.6284	-0.7672 H	1 RES444	0.3568
	5	C5	1.7401	2.3776	-0.6493 C.3	1 RES444	-0.0534
	6	H6	1.3058	2.0924	0.3178 H	1 RES444	0.2005
	7	C7	0.6305	2.1007	-1.6276 C.2	1 RES444	0.8362
	8	O8	-0.4759	1.6803	-1.2261 O.2	1 RES444	-0.6546
	9	C9	2.1190	3.8891	-0.5983 C.3	1 RES444	-0.2230

10	H10	1.2109	4.5022	-0.5842 H	1 RES444	0.1507
11	H11	2.6548	4.1693	-1.5106 H	1 RES444	0.1516
12	C12	2.9279	4.2324	0.5947 C.2	1 RES444	-0.1136
13	C13	2.4334	4.5294	1.8691 C.2	1 RES444	0.1109
14	H14	1.4389	4.5601	2.1211 H	1 RES444	0.2030
15	C15	4.3164	4.3140	0.6961 C.2	1 RES444	-0.1012
16	N16	3.4663	4.7672	2.7013 N.3	1 RES444	-0.7358
17	H17	3.4069	4.9984	3.6404 H	1 RES444	0.3639
18	C18	4.6096	4.6426	2.0187 C.2	1 RES444	0.2679
19	C19	5.3500	4.1293	-0.2439 C.2	1 RES444	-0.1331
20	H20	5.1408	3.9085	-1.2193 H	1 RES444	0.1720
21	C21	5.9301	4.7905	2.4615 C.2	1 RES444	-0.1702
22	H22	6.1145	5.0337	3.4341 H	1 RES444	0.1784
23	C23	6.6871	4.2676	0.1909 C.2	1 RES444	-0.2100
24	H24	7.4537	4.1349	-0.4752 H	1 RES444	0.1635
25	C25	6.9792	4.5960	1.5354 C.2	1 RES444	-0.1888
26	H26	7.9531	4.6973	1.8377 H	1 RES444	0.1693
27	O27	0.8336	2.2733	-2.8486 O.2	1 RES444	-0.6547